Vol., III.

APPENDICES TO THE REPORT

of the

Royal Commission

on

Indian Currency and Finance



LONDON

PRINTED & PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE

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Adastral House, Kingsway, London, W C. 2; 28, Abingdon Street, London, S W 1,

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Price 43, net

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ROYAL COMMISSION ON INDIAN CURRENCY AND FINANCE.

TEPENDEN 69

Memorandum on "The Responsibilities of the Secretary of State for India in Council in relation to Indian Finance, Exchange and Currency,' submitted by Mr C H Kisch, CB, Financial Secretary, India Office, and Mr Y Dawson, CIE, Public and Judicial Department, India Office

In lim the Secretary of State in Council is responsible to Parliament for "all uses operations and concer is which relate to the government or revenues of India and all grunts of salarines gratuates and allow nices, and all other payments and charges out of or on the revenues of India and he is consequently in possession of power to superintend direct and control those matters (Government of India Act section 2 (2))

- 2 Ins all embracing power of systematendence direction and control has been legally affected by the Vet of 1919 only in relation to those promical subjects which have been trusferred to the control of Governors acting with Ministers. In respect of these subjects there has been a statutory divestment of the powers of superintendence, direction and control, which can now only be exercised in relation to transferred subjects for specified and strictly limited purposes. The provincial transferred subjects do not include Currincy and I with unge nor an matters connected therwith In respect of those two subjects therefor, in common with all other central subjects and with all reserved provincial subjects the Secretary of State remains in law ultimately responsible to Parlament for the policy pursued and can compel the Government of India to carry out any instructions or policy which he acting on behalf of His Majesty's (covernment of Parlament may I'w down (Government of India Act sections 2 and 33)
- 3 The Government of India Act contains no provisions relating specifically to Currency and Exchange except in so fir as the provisions of section 67 (2) affect these matters by reason of their inclusion in the comprehensive expression public debt or public revenues of India contained in that sal action. Breades the general provisions already referred to, the ctieffines the expression revenues of India, critical lint the elevenues shall be applied for the purposes of the government of India alone as entiring what some of those purposes are (section 20) requires the nuction of the Secretary of State in Colmeil to all grants or appropriations of any part of them (section 21) provides (section 2.3. 21–2.2.6 and 27) that all parts of the revenues of India remitted to or account in the United Engloyn are to be paid into the Bank of England on Indiaff of the Secretary of State in Council and prescribes the procedure for drawing on the Bank of England for audit of the Home Vecounts and for an annual pre-curation of accounts to Farlament.
- 1 The only other financial power of the Secretary of State in Council derived from statute liw that needs to be considered in this connection is the power to raise loans in the funted kingdom. This function can be performed in both off of this foverment of India only by the Secretary of State in Council and when performed is subject to the specific authority of Parliament (see the series of Last India Loans Vets) in each case—or rather each specific lain which is rused must be covered by the authority of Parliament council by Vet to ruse a specified sum of money for a specified purpose. The Stocks issued in pursuit of the Last India Loans Vets any the status of Trustee securities and the amount of such sterling securities the capital and interest of which is charged on the revenues of India is, at the present time about 2.240 000 000
- 5 It should also be mentioned that the Secretary of State in Connect is responsible for of ligations memored by way of the governites of certain securities is need by some of the Indian Bulway Conquines planais to retired officials &c. The due duch report the economisments has always led the Secretary of State to maintain a class mitterest in respect of all major questions of Indian finine—such as the bulg tary

urringen ents of the Central Government, the capital programms of that Government the exchange and the currence. As the Secretary of State is responsible for meeting his obligations in this country, he has always recognised his responsibility for munituming in this country adequate balances for the purpose

- 6 In terms the Local Government (Borrowing) Rules (vide pp 263-4 of Rules under the Government of India Act) muly that it is open to a provincial Government, acting under section 30 (LA) of the Government of India Act itself to raise loans outside India (and therefore presumably in the United Kingdom) if the sauction of the Secretary of State in Council first obtained. But as the Secretary of State in Council himself cannot raise loans outside India without Parliamentary sauction (as pixel expension), these rules are probably by the messlves insufficient to enable a provincial Government to evercise this power. It will be observed that the rules in question give control over the borrowing in India by local Governments but that this control is in form vested in the Government of India and not in the Secretary of State
- 7 The foregoing is a bijef statement of the strict legal position as regards the Secretary of State's responsibilities for Indian finance including currency and aschange which can be still more briefly summarised by the statement that subject to the approval of Parlament on whose behalf he acts his powers are unlimited and that the Government of India are bound to carry out any instructions they may receive from him on the subject. But although the amending Act of 1919 made no concrete change in this respect in the relations between the Secretary of State and the Government of India and in their respective powers and duties account his to be taken in estimating the present character in practice of these relations powers and duties of the general hearing of other provisions of the Government of India Act which were inserted in it by the Act of 1919 and of the policy underlying the latter Act.

The general aim of the Act of 1910 as set out in the Promille was the gradual development by successive stages of self governing institutions with a view to the progressive realisation of responsible government in British India as an integral part of the Empire. One of the steps taken by the Act of 1910 towards the realisation of this object was the creat on in association with the Central Executive Government of a bicameral Legislature containing in respect of its lower chumber in overwhelming and in respect of its upper chamber a small imajority of non-official elected members, and endowed with all the ordinary powers and attributes of a legislature body, non-ludding power to vote and withhold supply. It is true that the Act contains executive notwithstanding in adverse vote to make its decisions effective or which place limitations on the powers of the Legislature, it is also true that the Journ in respect of these powers.

It is not within the scope of the Bill to introduce at the present stage any measure of responsible government into the central a liministration and a power must be reserved to the Governor General in Council of treating as sunctioned any expenditure which the Assembly may have refused to vote if he considers the expenditure to be necessary for the fulfillment of lins responsibilities for the good government of the county. It should be understood from the beginning that this power of the Governor General in Council is real and that it is me into be used if and when necessary

At the same time it is obvious—and thus the Joint Select Committee recognised in their important observations on clause 33 of the Bill (copy appended)—that the present Government of India Act cannot be looded for unless both prittees to the contract are prepared to cooperate in a spirit of give and take and that this involves on the part of the Government of India and of His Majest's Government a constant their obligations and responsibilities for the welfare of the country, to Indian public with opinion as constitutionally expressed in the Legislature. The Joint Select Committee, suggesting, the adoption of a convention of non interference by the Secretary the regulation of the relations lettices. The difficulty of reducing to rule of thunb Indian and the Secretary of State necessary of State necessary of State without at the same time imprising or destroying the legal responsibility which still exists on the part of Parliament for the good

government of India, will be apparent, but it man be said generally that since the passage of the Government of India Act in 1919 every indervous has been made to bring the relations between the Secret my of State in Council on the one hand and the Government of India and the Cential Legislature on the other into accord with the principles undurlying the Joint Select Committee's recommendation. How fur the Secretary of State and the Government of India would be prepared in any given case to surrended their judgment to tlat of the Indian Legislature in the event of difference of opinion must necessarily remain a question for decision on each case as it arises, with regard to its intrinsic importance, and to the rature and scope of its consequences to India itself to the United Lingdom to the Linguit, and to foreign relations. And this is all that can be prescribed in general terms of the attitude likely to be adopted by the Secietary of State towards proposals for changes in the policy regulating, and the methods of control over Indian hunner, currency and exchange, except to observe that certain changes in these matters might be of such a character as to after materially if adopted the relationship between the Secretary of State and the Government of India, as defined in the Government of India Act.

LATRACT FROM THE REPORT of the Joint Select Committee of the House of Lords and the House of Commons appointed to consider the Government of India Bill

Clause 33—The Committee have given most careful consideration to the relations of the Secretary of State with the Covernment of India and though it with the proximital governments. In the relations of the Secretary of State with the Governor General in Council the Committee are not of opinion that any statutory change can be made, so long as the Governor General remains responsible to Parlament, but in practice the conventions which now govern these relations may visely be modified to meet fresh circumstances caused by the creation of a Legislative Assembly with a large elected majority. In the exercise of his responsibility to Parlament which he cannot delegate to anyone else the Secretary of State may reasonably consider that only in exceptional circumstances should he be called upon to intervene in mutters of purely In han interest where the Government and the Legislature of India are

This examination of the general proposition leads mentably to the consideration of one special case of non intervention of one special case of non intervention. Nothing is more likely to endanger the good relations between India and Great Britain than a belief that India's fiscal policy is dictated from Whitehall in the interests of the trade of Great Britain belief exists at the moment there can be no doubt. That there ought to be no room for it in the future is equally clear. India's position in the Imperial Conference opened the door to negotiation between India and the lest of the Empire, but negotiation without power to legislate is lilely to remain ineffective. A satisfactory solution of the question cut only be guaranteed by the grant of liberty to the Government of India to devise those tariff arrangements which seem best fitted to India's needs as in integral portion of the British Empire It cannot be guaranteed by statute without limiting the ultimate power of Parliament to control the administration of India and without limiting the power of veto which rests in the Grown, and neither of these limitations hads a place in any of the Statutes in the British Limpire. It can only therefore be usuated by an acknowledgment of a convention. Whatever be the right listed policy for India for the needs of her consumers as well as for her manufacturers at is quite clear that she should have the same liberty to consider her interests as Great Britan, Australia, New Zealund Canada and South Africa In the opinion of the Committee, therefore the Secretary of State should as far as possible word interference on this subject when the (novernment of India and its I egislature are in agreement, and they think that his intervention when it does take place should be limited to safeguarding the international obligations of the I mpire or any fiscal arrangements within the Empire to which His Vijesty's Government is a party
The relations of the Secretary of State and of the Government of India with

The relations of the Secretary of State and of the Government of India with provincial governments should in the Committee sjudgment be regulated by similar principles so far as the reserved subjects are concerned. It follows therefore that in purely provincial matters, which are reserved, where the provincial government and legislature are in aprenient their view should ordinarily be allowed to provide the provincial government is closely concerned. Over transferred which the central government is closely concerned. Over transferred

subjects, on the other hand, the control of the Governor-General in Council, and thus of the Secretary of State should be restricted in future within the narrowest possible limits, which will be defined by rules under sub clause 3 of clause 1 of the Bill

Rules under this clause will be subsidiary legislation of sufficient moment to justify their being brought especially to the notice of Pairment. The Secretary of State might conveniently discuss them with the Standing Committee whose creation has been recommended in this Report, and Parlament would no doubt consider the opinion of this body when the rules come, as it is proposed that they should do for acceptance by positive resolution in both Houses. The same procedure is recommended by the Committee for adoption in the case of rules of special or novel importance under other clauses of the Bill. It must be for the Secretary of State to deeded which of the many rules that will fall to be drafted by the Government of India can be sufficiently dealt with by the ordinary process of lying on the table of Parliament for a certain number of days. In deciding this point, however, he may naturally have recourse to the advice of the Standing Committee, should it happen to be in session, and obtain their assistance in determining which rules deserve to be made the subject of the more formal procedure by positive resolution.

APPENDIX 69

Memorandum No 1, on "Indian Currency Developments since 1920," submitted by Mr. C. H. Kisch, C.B., Financial Secretary, India

- 1 The main facts of the Indian currency system as it existed before the wai, and the dislocation of the system arising out of the war are described in the Report of the Indian Exchange and Currency Committee, 1919 (the Babington-Smith Committee) of In order to bring the record up to date it is proposed to review the main developments of Indian currency policy since the date when this Report was presented
- 2. The cardinal recommendations of the Balungton Smith Committee's Report
 - (1) That the silver rupee, unchanged in weight and fineness, should remain unlimited legal tender and should have a fixed evchange value, expressed in terms of gold at the rate of one rupee for 11 20016 grains of fine gold, that is, one-tenth of the gold content of the sovereign

(2) That the sovereign, which had been rated by the Indian Coinage Act, 1906, at Rs 15, should be a legal tender in India at the ratio of Rs 10 to

The principle of these recommendations was accepted by the Secretary of State in Council, and, as a first step to giving effect to them, a notice was issued on 2nd February 1920 by the Government of India, notifying the fixation of the acquisition rate for gold imported into India, which had previously been subject to varietion from time to time (sude par 20 of Report), at Rs 10 for each sovereign tendered for import, or one rupes for 11 30016 grains of fine gold. The text of this notification and the aunouncement on general policy issued by the Secretary of State are attriched to this memorandum (Appendix 1)

First to the issue of this announcement, the official rate of exchange *te*, the rate at which the Secretary of State was prepared to sell Immediate Telegraphic Transfers on India, was 22 4d, but, with the unnouncement of the adoption of the main recommendation of the Gurency Committee, exchange rose on 2nd February measured by the London-New York sections.

3 Leonomic conditions in 1919 were influenced by the unusual circumstances arising out of the termination of the war. World prices ruled high and India was able to obtain good value for her exports, which were in keen demand. The sharp *References in this Memorature and World *References in the Memorature and *References in the *Ref

References in this Memorandum and in Memorandum No 2 to its Report should, unless atl everus stated, be taken as referring to it e Report of its Babagotto Smith Committee By the Mir (son Sir D) Dala!

Report of Babington Smith Committee

Rist it ex change en issue ef Report

Feor mic ec dit or s 1919-20 en I of post war boom advance of exchange had not apparently prejudiced Indian trade, and the year 1919-20 recorded a favourable balance in respect of India's private trade in merchandise of Rs 122 crores-a record figure at the time (see statistics in Appendix II)

Conditions changed entirely in the course of 1920 when it began to be realised that the boom in the previous year was based on unsubstantial foundations and measures were taken to arrest inflation. In November 1919 the Bank of Fugland discount rate was raised to 6 per cent and in April 1920 to 7 per cent, and about the same time the United States authorities brought the creation of credit within The rise in prices was stayed and the slump which reached such stricter control

serious proportions later, began

India soon felt the change in economic conditions The value of her exports Re declined from Rs 530 crores in 1919 20 to Rs 258 crores in 1920-21. The stream no of imports, on the contrary, increased in the same period from Rs 208 crores to En Rs 336 crores (see figures in Appendix II) This last tendency was to be expected as during the war India had been starved of her normal imports of manufactured goods and the high exchange had acted as an incentive to the giving of large orders which were now in process of execution. These influences placed a heavy strain on the Indian exchange, which official policy was directed to maintaining at 2s (gold) The difficulties were increased by the trend which the sterling dollar exchange was now taking. When the Balangton-Smith Committees Report was signed on 22nd December 1919 the London New York exchange, which had been unpegged ' In March 1919, stood at \$3 80 per £ on which basis the sterling equivalent of the 2s gold rupee was 2s 63d By 2nd February 1920 when effect was given to the main proposal of the Committee, the London New York rate had dropped to \$3 47? per £ and two days later to \$3 25 resulting in the theoretical parity of the rupe. being almost ਤੋਂ

The great prosperity which Indian trade had enjoyed during the war period had led to the accumulation of large profits which were waiting in India for acuitable opportunity for resultance to the United Lingdom The decision of the Government regarding the future level of exchange had thus been awated with much engerness. and the announcement of Government's decision, associated as it turned out to be with a weak sterling-dollar exchange and a correspondingly high sterling parity of the rupee, was the signal for a vigorous demand for homeward remittance had been a certain demand for Reverse Councils (that is drafts on I ondon) in rap January 1920, when the official rate of exchange was 2s 4d on the basis of which cla rate drafts on London were sold by the Government of India to the amount of The demand however, became far more intense after the announcement of the new exchange police. Government was in possession of large supplies of sterling which it was prepared to use with the object of making the new exchange policy effective and reverse drills were sold weekly in India from 5th lebrury 1920 to 28th September 1920 up to a total amount approximately of 50 000 000l But during this period the supply of exchange offered was not equal to the demand and the market rate for the rupeo gradually fell away. During the earlier period when reverse drafts were being sold, the price was based on the theoretic 2s gold parity for the rupce as measured by the sterling-dollar exchange a basis that involved parity for the tupe as meristred in the sterning-doubt exchange a bytis that involved offers at a rate substantially in excess of 2s sterling. For a considerable period the rate so fixed was higher than the current market rate but later the attempt to hold the rate at 2s gold was abundanced and from 21th June 1920 the price of reverse drifts was based on 2s sterling (see para 2 of official announcement Appendix III). In September 1920 it was decided to suspend efforts to maintain the exchange value of the rupce by the sale of drafts on London (see Appendix IV) and from that time to the present date the sterling resources of Government have not been furtl er drawn upon with this object

The decision of September 1920 signified the failure of Government to contract Indian currency to the extent required to maintain the evelange This contraction to have been completely successful would have involved the reduction of the Indian price level in conformity with the full in world prices. The requisite adjustment had now to be effected by the decline in the exchange value of the rupes. It is due to the Babington Smith Committee to point out that the possibility of developments which might lend to the breakdown of the 2s gold rupee was not unforeseen by them In part 51 of their Report the Committee after expressing the view that a high exchange was not likely to inflict any permanent injury on Indian trade noted that if contrary to their expectation a great and rapid fall in world prices were to

take place a new element of disturbance would be introduced and that circumstances might arise which would endanger the maintenance of exchange at the level proposed In that event the Committee recognised that it would be necessary to consider the whole problem afresh The fall in prices in 1920, which occurred so soon after the issue of the Committee's Report was the main cause for the failure of their scheme for the Indian currency

Removal of control over private trade m prec ous metals

5 It will be convenient at this stage to refer to certain other developments of interest that took place in 1920 War conditions had led to a stringent control over the import and export of silver and gold to and from India and one of the principal objects to be attained by the fixation of the rupee in terms of gold was to liberate the precious metals from official control Restrictions on the private import of silver were withdrawn on 2nd February 1920, when the new exchange policy was announced As regards export restrictions the sale of Reverse Councils coupled with the change in Indian economic conditions led to a return of rapees to Covernment, whose holding of silver coin rose from Rs 293 crores on 1st January 1920 to Rs 37 crores on 1st June 1920 Within the same period the metallic proportion of the currency note reserve rose from 454 per cent to of per cent. The convertibility of the note was thus again secure and the decline of tension in the silver market which was so pronounced a feature of the post war boom was shown by a fall in the New York price from 1342 cents per onnce in February 1920 to 91 cents per o ince on 30th June 1920 Circumstances were thus favourable to the cincellation of the prohibition of private exports of silver which was withdrawn on aid July 1920

The removal of the control over gold presented certain special difficulties had always been a large consumer of gold, and the practical cessation of imports during the war had led to the existence of a large premium on gold in India 31st Tanuary 1920 immediately before the decisions on the Balangton Smith Committee a Report were announced the trice of gold in India stood at Rs 27 6 as per tola or Rs 17 3 as per sovereign. The legal riting of the sovereign still stood at Rs 10 but owing to the premium gold did not circulate as currency The objective of Government was gradually to reduce the premium on gold in India by sales of bullion in the bazaar until the price of gold in India had been brought into conformity

with the world price, and then to remove the embargo on import

The programme of gold sales lasted from September 1919 to September 1920, la which time gold equivalent to nearly £383 millions sovereigns was sold. When the sales were completed the price of the sovereign in India was just under Rs 10, which represented the cost of importing a sovereign from this country. Actually it had been found possible to withdraw the restrictions on the private import of gold bullion in the cour e of June 1920 and the liter sales were conducted with the object of ensuring that any outstanding demand should be satisfied without undue strain on the world n arket Conditions did not however, enable the Government of India to issue sovereigns in exchange for rupees. Sovereigns could clearly not be paid out by Government in exchange for Rs 15 the then statutory ratio, seeing that this was about to be reduced to Rs 10 which was already the formal acquisition rate When, as explained below, the statutory rate was actually reduced to Rs 10, assues by Government at this ratio could not be made as the market value of the sovereign was much in excess of the statutory rate As legards

* The issue of gold by Gore nine t for the encashment of notes was suspended in August 1914 (cide para 10 of Report)

the export of gold from the bazrar, this wide para 65 of the Babangton Smith Committees Report) was not prohibited during the war " but

the restrictions on the melting of current gold coin were removed in February 1920 t

Indian Co n age (Amend ment) Act, 19.0 Indian

Paper Currency (Amend ment) Act

1900

6 Of other positive measures taken in 1920 the passage of the Indian Country Amendment Act in September nequires special notice. This Act together with the corresponding amendment of the Paper Currency Act, gave formal effect to the change of ratio recommended by the Broington Smith Committee The sovereign became legal tender in India at Rs 10 suitable arrangements having been made some weeks previously for the protection of Indian holders of coined gold who might otherwise have suffered by the change of rating

The Paper Lurrency Act provided as a temporary arrangement for an increase in the security portion of the reserve by the creation of ad hoc Indian Government securities to compensate for the decline in the rupce valuation of the gold and sterling assets entailed by the change of 11110 The Act contemplated the gradual

reduction of the holding of the Government of India securities to Rs 20 crores, of which the created securities were not to exceed Rs 12 ciores. The profits on the Paper Currency were to be devoted to this purpose, and to accelerate the reduction of the ad hoc securities it was further arranged that the excess in the Gold Standard Reserve over 40,000,0001 should be utilised each year with the same object † The Paper Currency Act, in addition to laying down special provisions to govern the period in which the holding of the Government of India's securities was being reduced to normal proportions, laid down permanent provisions for the constitution of the Paper Currency Reserve which were to be brought into effect on a day to be "appointed" Owing, however, to the breakdown of the 2s, gold. rupce this day has not arrived and the Act will require revision to meet altered circumstances, when a new ratio for the rupee is established.

7 While active measures to support exchange up to the new statutory level by Exchange the sale of reverse drafts were suspended in September 1920 no formal abandonment policy since of that objective took place As time advanced it came to be realised with increasing clearness that the 2s gold rate which might have been appropriate had world prices remained on the level of 1919, was likely to be unsuitable in the circumstances that arose after the general and heavy fall of prices that began in 1920. Though the economic tendencies that were operative during these years shattered the scheme of the Babington Smith Committee, Government felt it incumbent upon itself to take such indirect measures as might tend towards checking the fall in exchange and as might create conditions favourable to its gradual recovery character of the measures taken, some of which would clearly have had to be taken in any event altogether apart from exchange considerations, in he briefly considered

S The increase in the cost of administration in India the Afghan War in 1919, Rehabilita Rs lakl s 5 73 1918-19 ording 1922-23 the deficiency in the final accounts finances 1919 20 23 60 1920-21 26 01 amounted to nearly Rs 100 crores, as shown in the margin

1921 22 27 60 These budget deficits entailed heavy borrowings in India 1922-23 15 02 and in London, a large increase of the floating debt and a certain amount of currency inflation. It was the object of 98 06 Total Government to get rid of the deficit as soon as possible,

to reduce the floating debt, and to contract the inflated currency

By the exercise of stringent economy and the street of good monsoons and improving trade, budget equilibrium was with the effects of good monsoons and improving trade, budget equilibrium was 1002-21 and has since been maintained. The issues of short term By the exercise of stringent economy and the increase of taxation, combined Indian Treasury Bills to the public, which reached their maximum of Rs 603 crores in May 1921, were entirely redeemed by July 1924

9 As regards currency contraction, the tendency of Indian trade is to require Currency in ordinary times substantial additions to the currency, and from the figures in restriction Appendix V it will be seen that in the five years preceding the war the arease annual absorption of currency was Rs 22% crores. During the war and till the conclusion of the post armistice boom the increase was much greater, and for the five years ending 1919-20 excluding absorption of sovereigns, which cannot have circulated to any material extent as currency, the average annual absorption of currency was Rs 494 crores The existence of budget deficits of a sub-tantial amount clearly made currency contraction a matter of unusual difficulty, but in the three years 1920-21, 1921-22 and 1922-23 Government was able to effect a reduction in the currency circulation amounting to Rs 384 crores.

Provisions existed in the Indian Paper Currency Act as amended in 1923 * for interest bearing advances to the Imperial Bank by Government up to Rs 12 croics. and though full advantage was taken of these provisions a serious situation might have resulted had the Government of India not assisted the market by expanding the note issue to the extent of a further Rs 12 crores against British Treasury bills earmarked to the reserve in London Fren so the Imperial Bank deemed it earmane to the reserve in London 7 her so the Imperial Black decimes in necessary to advance their rate of discount to 9 per cent from February to April 1924 a rate which had not been reached since the amilgamenton of the three Presidency Banks in 1921 From the figures in Appendix VII, which show the position of the note issue from Fel ruary 1920 to the present date it will be observed that the Government securities in the reserve rose in the busy season of 1923-24 by Rs 14 crores (of which Rs 2 crores represented an exchange of sterling Treasury bills against gold) but the maximum amount of securities viz, Rs 15 crores was substantially lower than the then legal limit of Rs 85 crores The object of restricting the increase was to avoid any risk of renewed inflation which might militate against the recovery of exchange which was still below 1s 4d gold

Remittance

10 Apart from the above measures, which must have contributed to check the weakening of exchange and to promote its recovery after the collapse in 1920 Government endeavoured, so far as it could to avoid placing any positive strain on Government statement, as an extraction to the parting any positive statum on exchange in connection with the supply of funds for meeting the Home charges. These charges which amount to about 28 000 0002 (exclusive of capital charges) per year were in the past mainly met by the side of Council drafts to banks and other institutions which required rupees for the purpose of inancing Indian trade The sale of the e drafts to the public was entirely suspended from January 1920 and it was not until January 1923 when the rupee exchange had recovered to 1s 4d sterling that Government again offered Council drafts for sale During the period of suspension the requirements of the Home Treasury were met mainly from the proceeds of recoveries from the Imperial Government in respect of expenditure incurred by the Government of India on their behalf and by sterling loans tof unprecedented amount

The dute of the resumption of the sale of Council drafts is significant, as 1922-23 marked the return of Indian trade towards more normal conditions The extreme reaction from the boom conditions of 1919-20 largely spent itself so far as India was concerned, in the years 1920-21 and 1921-22 when there were heavy adverse In 1922 23 the figures of the balance of private trade in merchandise and treasure showed a credit of nearly Rs 30 crores in India's favour (See Appendix II) This tendency has been confirmed in the two succeeding years The Government have thus been able to effect extensive remittances from India to Loudon for the purpose of meeting the Home charges and it has not been found necessary to float any loan in the United Kingdom since Vay 1923 all Home charges both on revenue and capital account having been defiated from funds drawn from India with the addition of certain small receipts that accrue on this side

Season 1924-25

11 The monsoon of 1924 was a satisfactory one, and when the busy season opened that year there was considerable expectation that the experience of 1923 24 would be repeated and that high money rates would in due course rule in the Indian This view derived support from the cash ratio of the Imperial Bank whose discount rate rose to 6 per cent on 16th October 1924 some six weels before the corresponding event occurred in the preceding year Io mitigate the adverse effects on tride that might ensue from the persistence of unduly high money rates for an on trude man might ensure from the personned of underlying money rates for an excessive period the Secretary of State and the Government of India agreed on a policy of repleashing with fresh issues of curiency the cash balance of the Imperal points of representing that it is a sound of the reasonable figure. The standard tentatively adopted for this purpose was that the Bank s cash resources should not be allowed to fall materially below Rs 15 crores before March 1925 or below Rs 12 crores

allowed to an internal policy has 10 errores before March 1920 or below Hs 12 croics

The Balayten on the Committee recommended that to meet the seasonal demand for currency in lad a powers at oath be taken wheel would enable notes to be a red spanet commercial bills up to a land on the collateral security of the land on the results of the seasonal demand for currency land on the collateral security of the land was to carry interest at 5 per 4 foans to the Imperial was raised from Rs 5 to Rs 12 constant and was to carry interest at 5 per 1 foans to the Imperial interest to be charged. The present Rs 4 constant charges have been made at 1 for 1923 the limit of the 1920 to the whole outstanding advance carry be assent at 6 per cut and Rs. 8 are for the season of the 1920 to the season of the 1920 to t

in the later part of the busy season. As regards active exchange operations, the policy of the previous busy season was followed, namely, that advantage should be taken of a firm or rising exchange to effect the remittances required for the immediate and prospective needs of the Home Treasury sterling exchange being bought on in abundant sea's with a view to checking any unduly rapid appreciation of the rupee, and operations being vouded when the market was weal

During September 1924 exchange rose from about 1s $5\frac{1}{2}d$ to about 1s $5\frac{3}{4}d$ and early in October 1s $6\frac{3}{16}d$ then equivalent to about 1s $4\frac{3}{2}d$ gold was touched, despite heavy remittance operations by Government

The position indicated by this sharp upward movement in the evolunge formed the subject of unious consideration between the Government of India and the Secretary of Sixte, as the result of which it was decided that without making any public announcement of policy efforts should be made to prevent exchange from breaking away materially above 1s 6d for the time being any tendency of exchange to rise appreciably above this figure being counteracted by free offerings of rupees In pursuance of this policy remittances from India to the Home Treasury were effected in the latter half of 1924 2. by the purchase of sterling in India and the sale of Council drafts in London to the amount of 21864 5362 at rates varying between 1s $\sim 1/2$ and $\approx 6 k_{\rm s}^2$ d the last remittance in the financial very being made on 10th Wirch 1925 after which drie exchange declined for a period somewhat below 1s 6d

During the same period the note issue was expanded to the extent of Rs 8 crores against internal bills of exchange and Rs 6 crores against British Treasury bills. In order to remove anxiety and to provide ample margin for possible expansion the maximum limit of the fiduciary issue was raised by the Indian Paper Currency (Amendment) act 1925 from Rs 50 to Rs 100 cores but it has not been found necessary to have recourse yet to these add tional powers.

The demand for money was not as keen during the busy season of 1924—75 as in the preceding year, and the Imperial Bunk did not viase their rate of discount above 7 per cent as compared with 9 per cent the year before. The comparative ease with which the monetary needs of the season were met is in part to be explained by the fact that owing to the large net imports of bullion (especially gold of which nearly Rs. 50 corors were imported in the half year ending March 1925), the visible balance of trade in favour of India was substraintly lower in 1924 25 thin in 1923 24 Tuither as explained above the policy of the Imperial Bank was no doubt influenced by the knowledge that the Government of In Ia were auxious to avoid a recurrence of the extreme stringency of the previous year and were prepared to co-operate with them to this end

As legards 1995 26 (to date) there has been no material departure from the policy 1925–29 adopted in 13.24 25 as regards the ex-hange. After consideration of all the relevant conditions the Secretary of State and the Government of India agreed that it was undesirable that exchange should be permitted for the time being at any rate to rise materially above 18 6d. From April to September 1925 remittiuces have been effected by Government to the amount of 20 548 000l at rates varying from 1s 0d to 1s $6\frac{1}{18}d$ for telegraphic transfers. During this period the balance of private true in commodities and treasure has continued strongly in India s favour, the figures for

12 The reflection of the collapse of trade in 1990 and the subsequent gradual Prices and the rupee exchange may now exchange be considered

The following table exhibits the movements in the Indian wholesale price level since the pre-war period, in comparison with the corresponding changes in the wholesale price levels of the United Kingdom and United States of America. The table also shows, in the penultimate column the average sterling rupee exchange in recent years and as after the unpegging of the Londom New York exchange in 1919 sterling depreciated substantially in terms of gold figures are given in the final column showing the gold equivalent of the rupee after allowance is made for the discount on sterling

April-August (see Appendix II) showing a credit of nearly Rs 49 crores

This increase in the perm suble fiduciary same was coupled with a provise that the value of the created securities in the Reserve should not exceed Rs 50 crores

		bers of wloles	ale prices	Гxcl	arge
_	Calcutta *	U K Statist	USA Labor Bureau	Average rupee steiling exchauge †	Gold value of the rapes (based on Lalcutts on London and I ondon on New York I I sell ng rates)
1913 average - 1914 " - 1915 " - 1915 " - 1917 " 1918 " - 1920 " - 1922 " - 1922 " - 1923 " - 1925—Jan - Teb Vlar April May June - July - August	100 112 128 147 180 198 191 180 176 171 171 172 169 164 167	100 100 127 160 206 242 295 182 164 168 168 168 162 161 154 158	100 98 101 127 1177 144 206 226 149 151 150 161 161 161 161 161 161 161 16	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s d

*This index is based on the prices in July 1914 (100) and is constructed by obtaining the arithment average of the ration of the in brinding prices of 16 groups of 40 articles. The intex is not veryl ted except in a crude way by allowing two is more quotations for certain important commodities. To quotations being taken in all.

*The intex for the years 1913 to 1918 represent the average rates of exchange obtained by the Secretary of State for sales of B lis and Telegraphic Transfers on India. Iron 1919 onwards the rates.

represent the daily average for each year of the ma Let Telegraph o Transfer selling rates in Calcutta on London

In para 49 of then Report the Babington-Smith Committee referred to the effect of the rise in the rupee exchange on the Indian price-level, and observed that, though it was impossible to estimate in precise terms the influence of the rise in exchange on Indian prices, they did not doubt that "in accordance with accepted economic theory Indian prices would but for the rise in exchange, have been still further enhanced

It will be noted from the above table that in 1920 the average of the United kingdom price-level was prictically 200 per cent above the pre-war figure the same period the level of Indian prices had risen by only 100 per cent postulating any precise equilibrium in the movement of British and Indian prices, it my be assumed that the difference between the above figures was, as suggested by the Babington-Smith Committee to a substrutial extent accounted for by the rise in the supee sterling exchange, of which the average in 1920 was 2s as compared with 1s 4d before the war

I 10m 1920 to 1921 gold prices as measured by the United States index declined by 35 per cent, and sterling prices according to the Statist index by 35 per cent, or, if this movement is considered from another angle, gold recovered 43 per cent and sterling 32 per cent of the loss in purchasing power suffered since the outbreak of war Leonomic events moved somewhat differently in India 1 rom 1920 to 1921 the In han price level fell only about 11 per cent, that is the rupee failed to retain the full relative advantage in respect of purchasing power which it had established with reference to gold and sterling during the great rise in world prices that occurred towards the close of the war and in the post armistice period

The circumstances that led to the breakdown of the policy aiming at a stabilisation of the rupee at 2s gold have been discussed in paragraphs 3 and 4 stage it seems sufficient to observe that the contraction of currency, which would have been required to induce a movement in the Indian price-level conforming to that occurring in gold and sterling prices would have been a hazardous undertaking, which might have brought untoward consequences to the Government of India and to Indian trade. The fact however that the Indian price level did not conform to the movement in gold and sterling prices was naturally reflected in the decline of the ruper exchange.

After 1921 gold prices it will be observed from the figures in Appendix VI relating to price movements in the United States of America, rose slightly in 1922 and 1923 tiken as a whole During this period until the middle of 1923 sterling prices were inclined to fall but the difference in tendency is largely accounted for by the fact that the sterling value of gold was improving during this period, the averages for the dollar sterling exchange in the years 1920 1921 1922 and 1923, being \$3 66 \$3 85, \$1 43 and \$4 57 respectively In 1924 sterling prices rose again and there was a slight reaction from the previous rise in the United States index. It will be observed from the monthly figures and diagram in Appendix VI that will be observed from the monding unress and argams in Appendix V first after the decline in Indiun prices in 1921 the movement in the Indian price level in the years 1922-24 was slight and there was greater price stability in India than either in the United States of America or the United Kingdom Here, again he explanation may be found to some extent at any rate in the movement of the Indian exchange. The average rates for the rupes sterling exchange in the four years 1921 1922, 1923 and 1924 were 1s $4\frac{1}{3}d$ 1s $3\frac{1}{3}d$ 1s $4\frac{1}{3}d$ and 1s $5\frac{1}{4}d$ respectively the corresponding gold values for the rupee in these years being about 1s $0\frac{3}{4}d$ 1s $2\frac{1}{4}d$ 1s $3\frac{1}{4}d$ and 1s $2\frac{1}{4}l$ At the end of April 1924—that is at the close of the busy serson—the sterling rupee exchange stood at 1s 483d equivalent to 1s 316d gold \ 1110us influences such as the gradual improvement of trade and the restriction of currency to which reference has already been made undoubtedly contributed to the progressive improvement in the exchange value of the rupee but it is worth noting that this result was the natural concomitant of the relative stabilisation of the Indian price level during a period in which gold and sterling prices had shown a tendency to rise Duing 1925 the sterling and ringe indices show a declining trend without any mullel disproportion in the movement for the first eight months of the year. During this period the rupee exchange has continued firm with a rising tendency

While it is not suggested that any positive inferences can be drawn from the index numbers referred to in this note the figures are of interest as conforming, when considered in their broad aspect to the view that movements in the rupee exchange have a more or less definite relation to movements in world prices. The collapse in would price in 19 0 contributed to the heavy fall in the rupee exchange and the subsequent puttal recovery in world prices has been a substitutial factor in promoting the rise in exchange from the low level of 1921.

The bearing of the relation between prices and exchange on the question of the

rating of the rupee will be further considered in a subsequent paper

APPENDIX I

Announcements issued in connection with the Report of the Committee on Indian Exchange and Currency, 1919

No 1

Announcement by the Speretary of State for India published on 2nd Ffbruary 1920 $^{\rm o}$

The Secretary of State in Council his considered in consultation with the Government of India the Majority and Minority Reports received from the Committee appointed by him, under the chairmenship of Sir Henry Babington-Smith to advise on the subject of Indian Lachange and Currency. The Majority Report, which is signed by the Chairman and all the members of the Committee except Vir D M Dulal states as its objects the restoration of a stable and automatic system and the maintenance of the convertibility of the note issue

 $^{^{\}circ}$ This announcement was also issued in Ind a on $^{\circ}n1$ February 1970 as Finance Department to ficat on to 369 f

The fundamental recommen latiors of the Report are as follows -

- (a) that the present r pee unchinged in weight and fineness should remain unlimited legal tender
- (b) that the rupee should have a fixed exchange value, and that this exchange value should be expressed in terms of gold at the rate of one rupee for 11 .0016 grains of fine gold that is one tenth of the gold content of the societies.
- (c) that the sovereign which is now rated by has at Rs 1, should be made a legal tender in lindia at the revised ratio of Rs 10 to one sovereign,
- (d) that the import and export of gold to and from India should be free from Government control as soon as the change in the statutory ratio has been effected and that the gold mint at Bombry should be open for the conage into sovereigns of gold tendered by the public
- (e) that the notification of the Government undertaking to give supersolvent sovereigns should be withdrawn
- (f) that the prohibition on the private import and export of silver should be removed in due course and that the import duty on silver should be repealed unless the fiscal position demands its retention

These recommendations develop with the necessary modifications required by altered circumstances the principles on which the Indian currency system was established before the war and are accepted by the Secretary of State in Connect as expressing the goal towards which Indian currency policy should now be directed.

Under the conditions existing prior to the war sterling and gold were identical standards. The existing disparity has made a choice between these standards necessary and the Committee's recommendation is in favour of plucing the rupee on a gold basis.

In seconneeding a rate, namely that above mean oned for the exchange value of the rupee the Chairman and majority have tale in account of the high range, of silver prices and of the importance of safeguarding the convertibility of the Indian note issue by providing so fat as possible that the tokin character of the rupees shall be restored and maintained se that the Indian Covernment may be in 1 position to buy silver for comage into supees without loss. They were also impressed by the serious economic and political risks attendant on a further exprussion of Indian prices such as must be anticipated from the adoption of a low rate.

The arguments advanced in favour of a gold basis and a high rate of each ingo appear to the Secretary of State in Council to be conclusive and he has decided to tall, the necessary steps to give immediate effect to the recommendations on these points. Accordingly the Government of India have to day amounced that the rate which they will pay for gold tendered to them under the Gold Import Act by private importers will henceforth be fixed at one rupee for 11 30016 grains of time gold that is 10 rupees for the gold content of the soverigin. The consequential charges in the regulations relating to the sale of Council Drifts by the Secretary of State in Council and Reverse Councils by the Government of India will be notified separately

The question of the internal tatio presents special difficulties. The Committee recommend the maintenance of gold on a legal tender footing especially in view of possible difficulties in obtaining adequate supplies of silver. A fixed ratio must therefore be established between the rupee and gold as used in the internal circulation is therefore severeign for Rs 10 in correspondence with the new exchange ratio. The former alternative would give the sovereign for Rs 10 in correspondence with the new exchange ratio. The former alternative would give the sovereign the status of an overval sed to the content of sovereigns and make an open gold mint impossible. The Secretary of State in Council agrees with the Committee that such conditions ought not to be contemplated as a permanent arrangement. On the other hand the lower ratio cannot be effectively introduced while a great disparity continues to exist between the commercial price of gold in India and the intended Indian Mint par of one sovereign for Rs. 10

Present conditions are the product of the war, and in some sense artificial. They cannot be immediately remedied without the risk of shock to the economic and monetary system in India and of leactions elsewhere to which India cannot in her own interests be indifferent a gradual process of rectification and adjustment

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to new conditions is required. For some time past action has been taken in India to reduce the premium on gold by regulin Government sales of bullion to the public, and this measure will be further developed. It may be expected that in this way a natural adjustment may be effected and the path to legislation cleared

The Scoretary of State has decided therefore (1) that the import of gold shall continue for the present, to be controlled by hierace under the Gold Import Act with a fixed acquisition rate as mentioned above (2) that menumble periodical sales of gold bullion to the public shall continue and (3) that as a provisional measure during the transitional period the sovereign shill remain a legal tender at the present ratio of 18 15

In arriving at these decisions the Secretary of State in Council has not failed to give careful consideration to the Minority Report signed by Mr. D. M. Dalid Mr. Dalid's main object is the effective restoration and maintenance of the ratio of Rs. 15 to one sovereign as a measure both of the exchange and the circulating value of the rupee. In order to secure this, he relies upon freedom for the melting and export of rupees and corresponding freedom for the import of gold. To meet the possible resulting shortage of silver coin he recommends that as long as the New York price of silver remains above 92 cents. Government should coin 2 rupee silver coins of reduced fineness the cointing of rupees of present weight and fineness being meanwhile suspended and only resumed when the price of silver falls to the figure named. He also recommends that sterling drafts on the Secretary of State should be sold only at 18 3-3²/₂d.

The Secretary of State in Council is satisfied that this programme could not be adopted without untoward consequences. The heavy exports of silver coin to be anticipated under the scheme must threaten not only the whole silver circulation but also the Government's reserve of silver coin and entail the grivest rist of mean vertibility of the Government's note issue. The demand for the gold required paray passit to make this deficiency good must greatly aggravate any strain there may be on the gold stocks of the world when freedom of import is restored. Nor is it safe to assume that these difficulties could be met by issuing new silver coins of inferior fineness, the evidence agruins the acceptibility of inferior substitutes for the present rupes has impressed the majority and their recommendation on this head is accepted by the Secretury of State as decisive. If Dial's recommendation in regard to the rute for sterling drafts if adopted must produce an innum intercrash in exchange bringing unmerited disaster to those who have reasonably telied on some continuity of policy. The only cover which his scheme affords is the export of the country's circulating currency. In any case, even if a return to the pre-war level of exchinge could be accomplished without shock to trade or risk to the currency system, it would lay Judin open to a further serious inflution of prices while the Majority's recommendations would tend towards a reduction of the general price level in India.

Both during and since the wir Indian currency and exchange have pre-ented problems previously uninterpated and more perplexing than any encountered since the decision to close the Mints in 1893. But the Secretary of State in Council is satisfied that the decisions reached promise an eventual solution and he desires to express hi and nowledgments to the Committee and their Churmun for it o ablity and thoroughness with which they have explored the issues and framed their recommendations

No 2

Announcement dated 2nd Ifbruary 1920 issued by the Gollyment of India of

The acquisition rate for gold imported under licence into India which I as litherto been subject to variation notified from time to time has now in accordance with the Secretary of State for India's separate amouncement published to day relating to the recommendations of the Indian Currency Committee Leen fixed and the following fixed rites will apply to transactions on and after Monday, 2nd February; namely Rs 10 for each sovereign tendered for import or one rupee for 11 30016 grains of fine gold

The first two paragraphs of the abo e Announcement ere also issued a London on 2nd Feb 190

 Council drafts will continue to be offered at the Secretary of State's discretion for weekly sale at the Bank of England by competitive tender. The rate for deferred telegraphic transfers and bills will, until further notice, rank for allotment with tenders at 13th of a penny higher for immediate telegraphic it insters No announcement will be made of the minimum rate at which tenders will be accepted, and the Secretary of State for India in Council reserves the right of rejecting the whole or part of any tender In accordance with the Committee's recommendations, the Government of India will, when occasion requires, offer for sale stated weekly amounts of sterling ieverse drafts on the Secretary of State for India (including immediate telegr uphic transfers).

The rates for immediate telegraphic transfers on London will be unnounced on each occasion by the Controller of Currency, and will be bised on the sterling equivalent of the price of 11 30016 grains fine gold, as measured by the prevailing sterling-dollar exchange, less a deduction representing the charges of remitting gold The rate for deferred drafts on London will, until further notice, be isth of a penny

higher than the immediate rate as at present

- 3 The Finance Department Notification No 1071,6 dated the 11th September 1897, providing for the issue of rupees it the reserve treasures in Calcutta, Madras, and Bombay, in exchange for sovereigns and half-sovereigns at the rate of Rs 15 and Its 71 respectively, is cancelled Notification No 1908s, dated the 11th December 1906, regarding the receipt of sovereigns and half sovereigns at the mints, is also e incelled
- 4 The existing prohibition on the import of silver is cancelled, and the import duty of four annis an ounce is abolished. The probabition on the export of silver remains
- 5 The Notifications under the Defence of India Act oprobabiling the use of gold and silver coin otherwise than as currency, or dealing therein at a premium, are cancelled

· See Appendix below

Appendix to above

(a) Notification of the Government of Inlin, No. 4071 (Finance and Commerce), dated 11th September 1897.

In continuation of the notifications No 2662, No 2rt3, and No 2664, dated 26th June 1893 the In continuation of the actional hereby notifies for public information that from and after the date of this notification sovereigns and half sovereigns of current weight coined at any authorised Royal Mint bigland or Anstralia will be received at the Reserve. Ireasones at Calcula Madras and Hombay, and rupees will be issued in exclange therefor, the sovereign and half sovereign being taken as the equivalent of 15 rupees and of seven rupees eight annas respectively

(b) Notification of the Government of India, No 1909a, dated 11th December 1900 Receipt by the Mints of Calcutta and Bombaj of Sovereign and Half Sovereigns only

In supersession of the notifications 1; the Government of India in the Financial Department, No 2652 dated the 26th June 1803, and No 2218; dated the 18th July 1809, which are hereby ancelled the Governor-General in Council is pleased to direct that, with effect from 1st April 1907 gold bullion and gold come other than sortingue and half solvering will not be received by the Mint

(r) THE DEFENCE OF INDIA (CONNEDESTIN) RELES, 1915

21s. No person shall melt, break up, or use otherwise than as currency, any current gold or silver

com

Ile No person shall sell or purchase or offer to sell or purchase any com for an amount exceeding
the face value of soch come or shall serve to offer to sacret any such come in payment of a debt or

other was for an amount executing as a first rule the face value of a sovereign shall be decimed to be Explanation—For the purposes of this rule the face value of a sovereign shall be decimed to be Rs. 15 and the face value of other gold cause described in section II of the Inland Comage Act, 1996,

ALPENDIA II

Sea-borne Trade of British India on Private Account. 1911-12 to 1923-24

	L ¹	Mercl and s	,	į	Treasure		Balance of trade to	Pates of exchange		
Year	Imports	Fxparts	het n ports (-) or net expar s	In ports	Exports	Act im- ports (-) or net exports	merchandise and treasure		Average rate obta ned for Council draft and purchase of sterling	
	Rs Iks	Re ILs	Re ILs	Rs fks	Rs ILs	Rs ILs	Rs ILs	e d	s cI	
1911 12	1 39 57	2 27 85	89 28	53 42	10 36	-43 06	46 22		1 4 083	
191 '-13	16100	2 46 09	8a 09	51 20	7 Oə	-44 15	40 94	l	1 4 058	
1913 14	18325	24888	6563	36 C2	7 05	29 57	36 06	l ~	1 4 070	
1914 15	1 37 93	18159	43 66	21 77	3 30	-1847	25 19	-	1 4 004	
1915 16	1 31 99	1 97 46	65 47	11.86	7 43	-443	61 04	i ~-	1 4 088	
1916 17	1 49 61	2 45 22	9o58	1490	494	9 96	8a 62		1 4 148	
1917 18	1 50 43	2 42 56	9,13	26 05	5 43	-20 62	71 51	! ~	1 4 534	
1918 19	1 69 03	25358	84 8a	1 22	269	147	86 32	1	1 5 549	
1919 20	2 07 97	3 30 06	1 22 09	11 12	7 52	-3 60	1 18 49	1 11 878	1 9 691	
19_0-21	3 35 60	2 58 17	-77 43	23 42	25 80	2 38	-75 05	1 8 657	2 2 0 12	
1921 22	1 2 66 35	2 45 44	-20 91	31 15	18 99	-12 16	-33 07	1 3 849	1 3 965	
1922 23§	4 31	3 14 33	90 02	63 04*	2 78*	- 60,26	29 76	1 3 704	1 4 200	
1923-24	2 17 03	3 61 91	1 44 88	52 20*	3 50*		96 23	1 4 460	1 4 632	
1924-25	2 43 18	3 93 36	1 55 18	99 03*		-94 12	61 06	1 5	1 a 661	
15°5 26	8)68	1 58 13	6945	20 62*	1 06*	-19 56	49 89	1 6	1 6 075	
(5 montl s)}	}	ļ.)		1)	}	}	

* C tremer Notes are notaled from \$1\times 1\times 1\times 2 \$ from \$1\times 1\times 2 \$ from \$1\times 2 \$ from \$1\times

APPINDIN III

Indian Currency and Exchange

The following aunouncement has been issued to day by the Government of India -

Removal of Restrictions on Imports of Gold into India and Rates for Reverse Drafts

The Government of India and the Secretary of State have been in communication during the last few weeks regarding the action to be taken in view of the recent market rates of exchange which have now not only departed from the parity of gold, but have through lack of support from the export market film the parity of 2s which will ultimately hold when gold an I sterling return to parity. The effective and permanent solution of this question cannot be dissociated from the policy to be adopted in regard to gold. The Government of India are glad to announce that as from 21st June the restrictions over the import of gold bullion and foreign coin will Moreover, the Governor General is issuing an Ordinance declaring that sovereigns and half sovereigns will cease until further notice to be legal tender, though they will be received by Government at the present ratio of R 15 during a more torium of 21 days from this date that is to say up to 12th July On the expiry of the moratorium the restrictions over the import of British gold coin will all a be withdrawn At the forthcoming see ion of the I egislatus Council the Government. of India propose to submit a Bill prescribing the new ratio of one so ereign - Rs 10 at which the sovereign will become again legal tender. These measures which are in accordance with the recommendations of the Indian Currency Committee have been rendered specially urgent by the illicit importation of sovereigns which are smuggled across the land frontier of British India for encashment at Government Treasuries and currency offices

2 The Government of India announce that, having regard to the full in the mullet rate of sterling the rates for Reverse Councils at the sale of 21th June and at subsequent sales will be per rupe is 11\frac{1}{2}\frac{1}{2}\text{ for Imme listes and is 11\frac{1}{2}\text{ for Imme listes and is 11\text{ for Imme listes and is 11\te Deferreds these being the rates which will ultimately hold when sterling once more returns to pru with gold. At these 1 ites 1,000 0001 will be sold on the 24th instant, and weekly till further notice The following Ordinance has been resued to-lay by the Government of India .-

An Ordinance to deal with certain Gold Coin

Where is an emergency has ansen which makes it expedient to declare that gold comerferred to in section 11 of the Indian Comag. Act of 1906 shall cross to be legal tender and to make other provision in this connection. Now therifore in a service of the power conferred by section 72 of the Government of India Act, 1915, the Governor General in Council is pleased to make and promulgate the following Ordinance.

Ordinance No. 3 of 1920

Section I This Ordinance may be called the Gold Ordinance, 1920

Section 2 Notwithstanding anything contained in section 11 of the Indian Courage Act 1906 the gold coin referred to in this section shill even to be legal tender in payment or on account, provided that if any person within 11 days from the communicament of this Ordinance tenders my such class at an office of a circle of issue established under section 5 of the Indian Paper Curriner Vet, 1910, he shall be entitled on demand to receive currency notes of the denominational values presented under that Act in exchange therefor at the rate of 15 rupees for our sources.

Section 3. In determining for purposes of the Indian Paper Currence Act, 100 the value of sovereigns and Indiscoverings had in the reserve, such sovereigns and Indiscoverings shall be valued at the rate of 15 rupees for the severeign

INDIA OFFICE, 21st June 1920

. Sect on 11 of Indian Co mage Act 190. -

Gall on white countries I lis Majorty a B yal Mint in Finglist lor at any Mint established in pursuance of a I reclamation of His Majorty as a braich of His Majorty a Boral Mint shall be a Legal tend on payment it on account at the rate of 15 reports for one strenging.

Provided that such coins have not been called in 1 y any Pro lamation made in pursuance of the Ginage Act, 15"0 or have not lost we ght so as to be of less we git than that for the time being prescribed for like con not unler if an a 1-distinct set the less current weight.

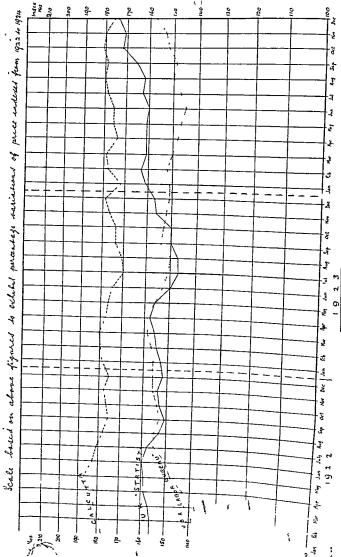
VERNOUS IV

Suspension of Sale of Reverse Drafts by the Government of India.

the following announcement has been made in India -

The Government of India have been in continuous communication during the past far months with the Secretary of State on the subject of the sale of Reverse Council Bills Since the 1st Ichrary the note circulation has been reduced from 185 crores to 158 crores on the Istil September, and this material contriction of Generical has to a large extent been readered possible by the maintenance of the weekly offer to sell sterling drafts on London. The effect which might have been anticipated on the exchange value of the rupee by reason of the withdrawal of this substantial amount of currency lars, however, been obscured by arrous causes, including the stagnation in the export trade and the abnormal activity in the unports into India of foreign goods. An opportunity for reconsidering the whole question has presented itself on the passing into law at the recent see not of the Legislative Council of the Indian Counge Act rating the sovereign at 18-10, and Government of India have accordingly, with the approval of the Secretary of State, decided after the sale of 28th September to withdraw for the present and until further notice the resent weekly offer of sterling drafts on London. The Covernment of India, however, esserve to themselves the right of resuming these sales should circumstances in their opinion at any time subsequently reader such resuming those sales should circumstances in their opinion at any time subsequently reader such resuming these sales should circumstances in their

INDIA OFFICE, 28th September 1920



MIENDIN V.

Absorption of the various forms of currency during the five years preceding the war and the eleven subsequent years.

(In lakhs of Rupers)

	(Sit toutes)											
	Year		ļ	Ruptes	Notes †	Total	Sovereigns and balf sovereigns	Crand total				
1909-10 1910-11 1911-12 1912-13 1913-11	-	-	-	13,22 3,31 11,50 10 19 5,32	5,03 19 1,14 2,71 2,65	18,25 3,53 15,94 13,20 7,97	4,31 2,15 13,33 16,65 18,11	22,56 5,68 29,27 29,85 26,08				
Total f	or i yen 113-14	rs 1900	-10	13,97	15,02	38,89	54,55	1,13,44				
1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1921-25				-6,70 10,10 33,51 57,86 47,02 20,09 -25,68 -10,16 -7,56 7,62 3,65	-6,01 9,23 13,89 17,29 19,29 20,20 -5,90 9,35 7,96 -2,51	-1°,71 19,6, 17,70 15,08 94,31 10,29 -31,58 -1,11 -5,69 15,58 1,14	8,13 29 3,18 14,26 5,81° - 2,32 - 7,38 2,78 9,13 6,74 14,53	-428 19,92 50,88 50,34 1,00 12 36,97 -35,06 1,67 3,74 22,32 15,67				
Total fo to 1	or 11 ye 921-25	urs 191	l-15 -	96,05	1,16,59	2,12,61	57,75	2,70 39				

Sovereigns I ave been valued at Rs 15 = 11 in the above table

ATTENDIX VI

Index Numbers of Wholesale Prices based on 100 in 1913.

	1	1922]	1 123		1924		
Month	Calcutti	U h Status	U S A Labor B tre tu	Calcutta	U K Statist	USA Labor B rem	Calcutta	U k Statust	USA Labor Bureau
Murch - April - May - June - July - August -	178 179 182 182 187 183 181 178 176 177 178	156 156 157 159 159 160 158 153 151 153 154 152	138 141 142 143 148 150 155 155 153 151 156 176	179 180 181 178 177 175 170 171 174 177 179	153 155 156 158 156 150 147 147 150 150 156 157	156 157 159 159 156 153 151 150 154 153 152 151	172 178 179 174 176 176 179 180 179 181 180	161 163 161 161 161 160 163 162 166 172 171	151 152 150 148 147 147 150 149 152 153 157

Includes 60 on account of gold mohars
 These figures are lased on the active note circulat on which does not include notes bell in Government Tensures and if y the Imperial Bank

APPLADIA 70

Memorandum No 2, on "Some Considerations affecting the Stabilisation of the Rupee-Sterling Exchange," submitted by Mr C H Kisch, CB. Financial Secretary. India Office

After the breal down of the 2s gold rupee it was always taken for granted that conditions would in due course arise in which it would be expedient and necessary to attempt again a primainent solution of the Indian exchange problem. The main questions that now have to be decided are—

- (a) whether the time is now ripe for this attempt and
- (b) if so what should be the basis of the new exercing ratio?
- 2 \s regards (a) recount has to be taken both of local and international factors. The historical note previously circulated has already touched upon the pulnicipal considerations that appear relevant to this issue. These appear to be as follows—
- (1) The Indian budget is a lalanced budget and barring any unforeseen calamities such as w ir or famine on a large scale the expanty of the Government of India to maintain budget equilibrium in the future may be assumed
- (a) The Floating Debt in the form of Liersury Bills which at one time threatened to reach dangerous proportions has now been exting inshed and the danger of the Government being compelled to resort to inflation on this account has disrippeared Phere is indeed a considerable volume of short term debt maturing in the next few years (sude figures in Appendix I) but the credit of the Government of India is such that there should be no insuperable difficulty in renewing the debt on maturity by conversion operations supplemented as necessary by fresh borrowing
- (c) The stabilisation of the Indrin exchange pre supposes a substantial export surplus which has to provide the amount required for meeting the home charges now amounting to about 28 000 000? on revenue account plus any steiling capital extended in the five verification of the twisble balance of trade in merchandre and precious rectals averaged its 42 2 crores annually in Indra s favour. In 1923 21 and 1924 2, the corresponding, figures were IRs 40 2 crores and IRs 61 1 crores. Assuming this to serious or sudden disturbance of world values is to be apprehended. India should be in a position to maintain a substantial export surplus in the future as in the past, though not necessarily as large as in the last two years. This remark, has reference to the normal tendency of Indian trade over an extended period and does not meru that occasions may not arise especially in the event of monsoon futures when the balance of true may be temporarily adverse. Such a situation if exhibited in a tendency of exchange to weaken below the gold export partity and last to be taken into account in the formulation of any new policy (see (p) below).
- In this connection it may be of interest to refer to certain statistics of Indian trade and pince indices. For the five years before the wir the average annual value of the private import and export trade in goods to and from India was Rs 146 crores and Rs 22 crores respectively. The corresponding figures in the years 1972 21 and 1924 22 were (imports) Rs 217 crores and Rs 232 crores and (exports) Rs 362 crores and Rs 36 crores respectively. Allowing for the increase in import prices of 80 per cent and 100 per cent in each of the Isst mentioned years above the pre wir figure and about 45 per cent? In the export values in each of the years concerned the corresponding valuations on the basis of pre-var prices would be (imports) Rs 121 crores and Rs 122 crores and (exports) Rs 250 crores and Rs 275 crores r pectively. It would seem reasonable to expect that if and when prices in the chief manufacturing countries fall the volume of imports into India should increase.

[•] The perce tages leve used are based on figures taken from Index Numbers of Indian Prices 1861 1918 (vith Addenda) 1 ublited by the Department of Statist of I did (5 e Appendix II)

HY ZIGNOIRA

Note Circulation and Currency Reserve from 1920.

	More											
		Gold to :	n and	Siver co	pand	Total	Per cent of Metall o	Secur	ities *		Bille of	Total
	Gross note						Reserve to Total			Total	change (linb	Reserve
Date			Out		OLE	Metall a	Total Reserve (exc)ud n#	Govern	Br tich Govern	secunties.	dis)	Hund a)
	streulation.	In late	of Fadia	In Ind a	of Inda	Reserva	(exclud n# Hund x)	of ind a	ment		uis/	
	ì]	1		100000				!	
	 	1			- 1	-	Per	Re	Rs	Rs	R.	R
	Rs	Rs	Rs	Ra	Rs lakhs	Rs	cent	lakbe	lakha	lakhs	lakb-	lakbs
1920	lakbs	lakha	11 62	lskbs 40.33	13 X D2	87 05	47 0	15 60	8º 50	98 10	-	185 15
In 31	185 15 183 03	35 10 41.30	4 65	38 98	- 1	81.93	35 4	15 6D	82 50	98 10	- 1	183,03
Feb 29 March 31	174 52	44 36	340	3383	l - I	87 66	50 2	19 44	67 27	86 8b	ļ —	174 52 170 74
April 30	170 74	45 39	9.5	39 37	I – I	85 70	50 2	23 77 31 18	61 °7 50 77	85 04 81 95	i -	166 92
May 31	166 99	49 80	74	41 37	i - 1	84 97 91 52	50 9	35 55	37 27	72 82	1 =	164 34
Јиле 30	164 34	43 48 44 69	2 19	45 55 50 30	-	91 92	57 9	40 62	28 27	68 83	=	163 87
July 31	163 87 163 27	39 12	1 =	55 29	=	94 41	57 8	47 33	21 53	68 86	i	163 27
Aug 31 Sept 30	157 63	36 15	1 -	58 06	- 1	1 44 91	59 8	47 14	16 28	63 42	-	157 63
Oct 31	159 58	23.75	-	59 41	- 1	83 16	52 L	68 07	8,35	76 42 76 42	= 1	159 58 160 21
Nov 30	160°1	23.86	~	59 43		83 79 84 98	52 3 59 6	68 07	8 ში ჩ,3ა	76 42	ι = .	161 40
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1921. Tan 31	163 41	24 00	1 ~	67.99	-	80.99	53 2	68 07	8 35	78 42	١	163 41
Feb 28	164 60	24 06	l -	C4 12	l –	88 18	53 6	68 07	8 35	7642	-	164 60
March 31	166 16	94 17	-	65 57	l	8+74	54 0	68 07 68 06	835 835	76 42 76 41	-	166 16 167,32
April 30	167 37	94 26 24 30	=	6663	1 =	90 91	54.3	67 99	833	76 34] =	167.80
May 31 June 30	167 80 171 75	24 30	1 =	71 07	1 ~	90 42	55 3	67 93	8 35	16 34	(=	171 76
July 31	175 56	9435	-	~4.81	=	90 16	56 p	68 05	8 35	7040		175 56
Aug 31	17602	2135	1 -	76 40	1 -	100 75	57 2	66 92	8 35	75.27] —	176 02
Sept 30	178 37	2434	-	78 76		103 10	57 8 58 0	67 95	8 35 8 35	75 27 75 41	=	178 37 179 71
Oct 31	179 71	24 34	1 =	79 90	1 =	104 30	59 2	64 40	6 33	7074	1 =	17348
Nov 80 Dec 31	172 53			73 37	1=	98 99	57 0	68 40	584	74 74	1=	172 53
1922	1	1	ļ	1	{	1	1	1	i	1	}	1
Jan 31	174 40		-	74 84	1	49 15	56 8	69 39	582	75 24 73 28	-	174 40
Feb 23	173 87 174 76	24 32		7627	_	100 59	57 9 59 0	65 03	5 85 5 84	70 92	200	173 87
March 31 April 30	171 70	2437	1 =	7601	1 =	100.83	58 7	65 00	584	70.93	200	171 76
May 31	172,39	24 32	-	77.00	-	101,38	58 8	63 17	584	71 01		172,39
June 30	176 01	2437	-	80.73		10:00	59 7	65 12	584	1 70 96		176 01
July 31	180 41	2437	1 -	85.03 88.39	1 =	10:41	60 f	63 78	58J	63 62	=	180 41 182 26
Aug 31 Sept 30	180 76	24 32	1 =	8+67	=	113 33	63 1	60 99	f 85	67 77	=	180 76
Oct 31	179 63	24 32	1 -	91 10	1 -	11247	64 2	58 37	584	61 1	-	179 63
Nov 30	177 30	137	-	89 72	1 -	114 04	64 3	57 49	584	63.70		177 30
D ≈ 31 1923	174 18	9437	1 -	86 GO	1~	11099	63 7	5742	984	63 26	1 -	174 18
Tan St	1726	2132	l ~	9 06	1 -	109 33	63 4	57 43	5.84	63 27	١ ــ	172 6.
Feb 28	173 89	2437	۱	Br 29	l -	11061	616	57 43	58>	63 28		173 89
March 31	1"470	24 39	- 1	87.05		111 38	63 7	17 48	5.84	C3 32	1	174 70
April 3) May 31	171 2	0137		83 6a 83 57	-	107 17	63 0	57 53 57 50	585	63 40	200	171 37
J me 30	173 6		+ =	8,91] =	110 27	63 0	57,50	584 584	63 34 63 34	=	171 23 173 61
Inly 31	1757	2 2132	: ~	1 90 04	1	1111%	6 1	57 51	3 85	61.36	1	17572
Aug 3t	176 3	21 97	:\ ~	91 47	~	tt# "9	1 67 £	57 51	-	57 51		176 30
Sept 30 Oct 31	180 8	213	: :	93 02	=	121 81	68 2	57 48 57 48	l –	57 48	1 =	173 23
Nov 30	178 3	22.33	≥	1) 2)		117 83	66 1	57 48	3 00	CO 48	1 =	178 30
Dec 31	1834	1 2 3	2 -	86 61	1 -	109 13	65 1	57 48	9 00	61 48	8 00	175 41
1934 Jan 31	184 0	3 333		82.18		1		1	14.00		1 000	1
Fel 29	1861	9 - 3	, _	8)34		10216	50 4	57.5° 17.53	14 00	71.53	1,00	176 02
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Apr l 30 May 31	181 9	1 273	स –	77.43	! -	9181	. i 58 3∙	57.53	13.99	71 52	10 00	171 33
June 30	174 5	9 273	::-	76 66		100 9		57 53 57 53	14 00	71 53	4 00	170 51
July 31	176 5	t 203	3) <u> </u>	875	1 =	1 14 8	59 1	57 35	14 00	71 52 71 35	1 =	179 43
Aug 31	1*81	3 223] =	84.49	1 -	106 8	59 7	57 33	14 00	71 33	1 =	178 13
Sept 30 Oct, 31	179 5	8 293	(1 ∼	85 63	? -	107 9	102	57 31	14 00	71 31	l –	173%
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1925	١		. [1 '	Į.			1	1	1	200	177 21
Jan. 31 Feb. 29	181	2 203	3 -	77.6	7	99 9	3 35 5	57 12	20 00	77 12	4 00	177 11
March 31	1 184 :	9 213	21 -	76,2 76.7	- 1	99.0	53 6	57 12 57 12	20 00	77 12	8 00	175 ^2
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May 51 June 30	173	23 923		· 737	5 ! —	96.0	7 55 5	57.10	90.00	77 16	6 00	173 61
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Ang 31	188	21 1 >> 3	10 L	887	á! =	1111		57 18 57 18 57 11	20 00	77 18	1 ~	184 30
5-pt 30	189	029	12 -	90 0	9	1124	1 59 3	57 11	20 00	77 11	(-	188,21
					1		_	1 5.11	1 2000	11.10	1 ~	189 51
The dee 27 .												

With effect from 1st October 1979 the Gold and Stering Securities in the Paper Currency Reserve proviously valued at Rs 15 = 11, were revalued at Rs 10 = 11 in accordance with the provisions of the Paper Currency (Aucundment) Act 1920 The resulting deficiency in the Reserve was made up by the solution of ad 1 or India Treasury Bulk.



APPLADIA 70

Memorandum No 2, on "Some Considerations affecting the Stabilisation of the Rupee-Sterling Exchange," submitted by Mr C H Kisch, C B. Financial Secretary, India Office

After the breakdown of the 2s gold rupee it was always taken for granted that conditions would in due course arise in which it would be expedient and necessary to attempt again a permanent solution of the Indian exchange problem. The main questions that now have to be decided are—

- (a) whether the time is now ripe for this attempt and
- (b) if so what should be the basis of the new exchange ratio?
- 2 As regards (a) account has to be taken both of local and international factors. The historical note previously circulated has already touched upon the principal considerations that appear relevant to this issue. These appear to be as follows —
- (A) The Indian budget is a lalanced budget and barring any unforeseen calmities such as us or famine on a large scale the expects of the Covernment of India to maint un budget equilibrium in the future may be assumed
- (a) The Florting Debt in the form of Liersury Bills which at one time threatened to reach dangerous proportions has now been extinguished and the danger of the Govinnment being compelled to resort to inflation on this account has disappeared there is indeed a considerable volume of short term debt maturing in the next few years (vide figures in Appendix I) but the credit of the Government of India is such that there should be no insuperable difficulty in renewing the debt on maturity by conversion operations supplemented as necessary by fresh borrowing
- (c) The stabilisation of the Indian exchange pre supposes a substantial export surplus which has to provide the amount required for meeting the home charges, now amounting to about 28 000 000 on revenue account plus my sterling capitil expenditure not met by borrowing in the United Kingdom. In the five very before the writ the visible balvines of tride in merchands—and precious metals averaged its 42 2 crores annially in Indias favour. In 1923-21 and 1921-25 the corresponding, figures were IRs 30 2 crores and its 61 1 crors. Assuming that no serious or sudden disturbance of world values is to be apprehended, India should be in a position to maintain a substantial export surplus in the future as in the pist, though not necessarily as large as in the last two years. This remark has reference to the normal tendency of Indian tride over an extended period and does not menu that occasions may not arise especially in the event of inonsoon failures when the balance of trane may be temporarily adverse. Such a situation if exhibited in a tendency of exchange to weaken below the gold export partic called for definite action under the exchange weaken below the gold export partic valled for definite action under the exchange of sevence below the policy (see (b) below)

In this connection it mis bo of interest to refer to certain statistics of Indian tride and price indices. For the five years before the war the average annual value of the private import, and export tride in goods to and from India was Rs. 146 crores and Rs. 224 crores respectively. The corresponding figures in the years. 1927 24 and 1924-25 were (imports) Rs. 217 crores and Rs. 213 crores and (exports) Rs. 362 crores and Rs. 35 crores re-pectively. Allowing for the increase in import prices of 80 per cent, and 100 per cent, in each of the Issimetioned years above the pre wir figure and about 45 per cent on the export values in each of the years concerned, the corresponding valuations on the basis of pre-war prices would be (imports) Rs. 212 crores and Rs. 222 crores and (exports) Is. 250 crores and Rs. 275 crores respectively. It would seem reasonable to expect that if and when prices in the clief manufacturing countries fall, the volume of imports into India should increase.

The percentages here used are based on figures taken from I lex Numbers of Ird an Ir ces, 1801-1918 (with Addenia) published by the Department of Statistics I dia (See Appendix II)

Although the satisfactory character of the Indian export trade is brought out by the above figures it is natural to enquire, with reference to the movement of exchange, whether Indian prices stand in the same relation to world prices as they did before the way

The Calcutta under number, which is believed to be the most reliable of the Indian general index numbers is based on the prices of a number of individual articles, including for this purpose import and export articles. On the basis of the latest available figures (August 1925) as compared with 100 pre war (ride Appendix II), the Calcutta general index number stood at 157 as compared with the Statist index number for the United Lingdom of los and the United States (Labour Bureau) index number of 160 These figures tempt the inference that Indian and world prices have now much the same relation as I efore the war. But it has to be rememi ered that the pre-war rupes exchange stood at le 1d and the rupee dollar exchange at 324 cents as compared with approximately 1s 6d in 1 362 cents respectively list August Allowing for the variation in exchange it is necessity to ruse the Indian index by one eighth to find the comparative gold price index for India corresponding to the Statist figure, and the Indian figure of 157 would rise to 177 as compared with the Statist index of 178. This might suggest that the present level of Indian prices is too high or that the exchange is higher than price I inities would warrant. On the other hand apart from the difficulties inherent in the interpretation of index numbers. there seems to be no convincing reason for assuming that the ratio between In him and United Lingdom prices will necessarily be the same in the future as before the The course of events has been different in the two countries and illowance must be made for the heavy general turiff which is now in force in India there is at present a striling disparity between the index numbers for Indian export and import articles which last July stood at 112 and 191 respectively of this last figure which owing to the use in exchange underrates the increase no doubt largely explains the relatively low imports into India at the present time. But allowing for the rise in exchange from 1s 11 to 1s 6d the expirt index of 142 corresponds closely with the Statist Iuli number 158. Thus on the lasts of the Lidin export index there would seem to be no material disparation between the present and pre-nur relations of British prices generally and the prices of Indian

While it is difficult to drive any precise practical concrusions from this survey of recent index numbers, it may perhaps be sul that they in a sense clucidate the tendencies of Indian trade as exhibited in the actual stat stics of exports and imports

(o) The stabilisation of the rupce-sterling exchange postulates that the Govern ment should be able to provide rupees without limit at the ratio established and that it should have the means of drawing off redundant local currency should this be required it any time. As regards the supply of rupees the maintenance of the Is 4d exchange was if convertibility was not to be sacrified rendered impossible in the course of the war by the great ri o in the price of silver Mith silver at about 12 per standard ounce the cost of a super (including mining charges) is about 1s 1d. With exchange at 1s 6d the price of silver would have to rise to 477 per standard ounce before the actual cost of the currency unit would amount to exchange value. If the exchange were at 1s 8d or 2s the corresponding figures would be about 531 and tod per standard ounce. Since the restoration of the gold standard in the United Kingdom, the price of silver in London has ranged between 31 15d and 33 15d per standard ounce

As regards the reserves available to enable the Government to offer international exchange against parment of local currence, the position is as follows. The Gold Standard Reserve which is invested in sterling securities, mostly with short term being a shown in Ap endix III Under existing orders the reserve will not increase beyond this figure In addition to this reserve which has been specifically built up for the support of exchange 20 000 000l British Treasury Bills are at present held in

F r general purpo es 19 019 1:64

London on account of the Paper Currency Reserve, and there is also held in India £22 3 million in gold to which recourse could be had if necessary There are large

F r general purpo es 18 019 1162.

outstruding borrowing powers in the hands
of the Secretary of State and recourse to the London market remuns open for strengthening the resources of the Secretury of State whenever required

^{*} Unexlausted borrowing powers on Otl September 19 5 -For productive purposes 64 (00 000)

The question of the adequacy or otherwise of the Gold Standard Reserve will doubtless, engage the attention of the Committee, but at present it may suffice to state that the amount of the reserve may be compared with 26 000 0007 which is the maximum figure held in it before the war. Moreover at no time before the war did the amount held in the Gold Standard Reserve and the Paper Currency Reserve on this side together exceed 31 000,000l "

In 1919 the late Sir I ionel Abrahams inclined to the view that 25 000 0001 would be an adequate holding in the Gold (11 le Ouestion 5026 Bibiston Standard Reserve, but held that no final decision Smith C muster) should be taken until economic conditions Sir Henry Howard, who was at one time

had returned to greater normality

Financial Secretary to the Government of India (Vile Appen lix D para 6 to Appen lix I Bal ngton Smith Committee) held that the aim should be to build the reserve up to not less than 40 000 000l which is the actual figure at the present time He considered that after this total and been reached half of the subsequent accretions might profitably be diverted to capital expenditure and that after 50,000,0001 had been reached all the receipts account

to the reserve might be so utilised

In Memorandum No 1 it was explained that the average annual absorption of curroncy by India in the five years preceding the war was about 2° cores. In the eleven abnormal years 1911-15 to 1921 25 the average absorption was about 18 25 crores. What the future normal figure is likely to be cannot be foreseen. But assuming that it will be in the neighbourhood of Rs. 25 crores at will be observed that a Gold Standard Reserve of 40 000 0001 represents a power of contracting the currency at an exchange of 1s lid to the extent of approximately Ils 53 crores that is, about two years normal absorption Past experience suggests that except in quite abnormal circumstances this amount of currency contraction would be much in excess of what the market could stand without producing grave stringency, and that a much smaller amount of contraction should suffice to bring about the readjustment of credit and prices required to re-establish the exchange value of the rupce should this at any time threaten to fall away time account must be tuken of the fact that normality in world conditions has not yet been established and though it would possibly suffice to maintain a reserve of 25 000 0000 or thereabouts with the view to rediess a wealening of exchange due to a temporary adverse trade balance, it is difficult to assess the strain that might be placed on the reserve if a prolonged period of stendily falling gold prices set in and the Secretary of State was obliged by adverse financial conditions to draw heavily on the reserve for financing his requirements. Moreover it is undesirable to reduce the sterling reserves to a figure which might not leave a sufficient margin for safety or might give rise to undue alarm or nervousness on the part of the public The Bibington Smith Committee agreeing in this respect with the Chamberlain Commission of 1913-14 held in 1919 that no limit could it that time he fixed to the amount up to which the Gold Standard Reserves should be accumulated from the profits of comage They considered that the settlement of this matter should await the return of normal conditions

Since the date of the Babington Smith Committee experience sheds little light regarding the amount at which the Gold Standard Reserve should be maintained The sterling reserves of the Secretary of State have only once been called into play since the date of that Report, that is in 1920 when as explained in Vemorandum No 1, an attempt was made to support exchange at 2s gold and later at 2s stelling The catastrophic fall in prices rendered the attempt abortive but the fact that 55 000 0001 was expended in a vun attempt to support exchange in exceptional conditions is no evidence that the existing reserves are insufficient having regard to any normal contingency that my properly be provided for It my perhaps be urged that reserves in London aggregating £60 000 000 (£40 000,000 in the Gold Standard Reserve and £20 000 000 in the Paper Currency Reserve rivespective of Currency Resurve gold in India) represent an excessive holding. But there is force in the view that before reducing the size of the Gold Standard Reserve experience of

[•] This figure may be compared will the resultes hell alroad by Japan — It has been the practice size Japan first adopted the gold standard to keep a consider the spece reserve in New York and London Size damary 1692 the total sum so kept has due not see along the 1991 the amount was over 1000 million year out in March 1924 the amount lad dwindled down to 400 million year.—The Economic Privier 18th According 1994 the property of the property o

the working of a re-established evehange system over a series of years should be awaited and in such a matter where there is clerify scope for difference of opinion, the imagnitude of the visues suggests that less fram is to be apprehended from maintaining the reserve at a high figure than from reducing it to what might proce an involvence or inconvenient level. In dealing with this question it is necessary, of course to have regard to the rate of each ange that it may be desired to establish in the future, and in formulating a line of policy as regards the Gold Standard Reserve it might be well to consider whether it would be desirable to regulate its growth with reference to the holding of sterling and gold in the Paper Currency Reserve

- (E) The re-establishment of the gold standard in the United Mangdom has removed one of the mun difficulties that faced the Babington Smith Committee in 1919. The experience of the period immediately following the issue of the Report-howed the druger of attempting to fix the exchange value of the rapec while sterling was divorced from gold and it has been generally incognized, since the brickdown of the Babington-Smith Committee's scheme that it would be desirable to wait for the return of the gold standard in the United Mangdom before a further attempt was made to stabilise the rupce exchange.
- 3 The question, whether the time is opportune for bringing to an end the period of instability of the rupee exchange involves consideration of the prospects of norl i puce movements in the period thead. In Memorandum No 1 ilready referred to it has been shown that the rise in the supee exchange in 1922-24 played an important part in securing relative price stability for India at a time when world prices were rising. The arguments in favour of regulating currency policy with a view primarily to see iring price stability have been much debuted in the Press and elsewhere and undoubtedly there would be certain advantages in applying such a policy to India, where conditions are in some respects favourable for this treatment of the question but as the United Kingdom the sterling using Dominions and other important European countries, have rejected the ider of bising their currency policy on internal prices and have elected to revert to the gold standard, it is scarcely a practical issue to consider a different course in the case of India. Further Indian trade and finance are closely bound up with sterling and there will be great and manifest advintages to Government and trade in re-establishing an effective fixed parity between the rupee and the pound now that the United Kingdom has reverted to the gold standard Moreover, in such a matter it is necessary to pay great weight to sentiment and there is no doubt that Indian economic and political sentiment is strongly in favour of a reversion to gold as soon It would seem, therefore that the only justification for not bringing the Indian currence into line with the policy of the United Lingdom and the Dominions nould have to be founded on an anticipation of in early or substantial change in the level of world prices, which might make it desirable to postpone for a further period the actual decision as to the riting of the rupee. The point deserves careful attention, as if the element of elasticity at present inherent in the regulation of the rupee exchange is once surrendered by halling the rupee to gold at a new parity, it would scarcely be possible to recover it except in the deplorable event of a breakdown of the new ratio
 - 4 If any substantial rise in world prices is to be apprehended at an early date the ratio of the rupee in terms of gold determined in the light of existing factors might prove lower than would be expedient On the other hand if any substantial fall in world prices is likely the ratio determined in the light of existing factors, might provo he her than would be conducive to India's economic interests in the long run. or might even concertably be beyond the power of Government to render effective in the en l It is not suggested that any clear evidence exists for inclining to either of There has undoubtedly been advantage in initigating for India in 1923-24, by the rise in exchange the effect of the rise in world prices which would have been communicated to her had the rupte been effectively linked to sterling or gold at a fixed ratio during that period and there are obvious drawbacks at a time when the future of norld prices is obscure, in surrendering this element of elasticity in Indian currency policy. On the other hand it is important in the interests of Government and tride to I ring to an end the period of exchange instability as soon as there is good and the to rink to act and the prices are likely to remain reasonably steady. No doubt it is at present difficult to forecast future movements in the commonthy value of gold, and on this fact a case might be based for a further period of delay before

taking permanent decisions regarding the rupes sterling exchange. But altogether apart from the natural desire to terminate the period of Government, man ignment of the currency, in the sense that it has I ad to be managed in the last few years it may perhaps be usuamed that the United Kingdom and the other countries which have now returned to the gold standual would not have done so had there not been good grounds for holding that the years immediately alread would not witness any serious change in price levels. In this connection it is worth noting the statement by the Chancellor of the Exchequer on 28th April —

"We have entered a period on both sides of the Atlantic when political and economic studity seems to be more assured than it has been for some years." Further the importance of maintaining the commodity value of gold stable was emphasised it the Genoa Conference, and it may perhaps be anticipated that this is lited to be a subject of constant are to the principal central Bruks of the world While therefore, it cannot be disguised that there must be some risk in lusing recommendations regarding the permanent ruing of the rupec on the factors of to day, it has to be considered if the risks are greater than it would be reasonable to take, and even if decisions were postponed for a further period the element of risk cannot be entirely elementated whenever the actual decision is taken

- 5 The bearing of India's absorption of gold on the stabilisation of the exchange will doubtless receive attention Statistics are included in Appendix IV showing the amount of India's net absorption of precious metals in recent years. The large volume of net gold imports in 1972 23 1923 21 and 1924-25 viz Rs 41 croies Rs 29 crores and Rs 701 crores respectively are noteworthy, and it is significant that, de pite these large imports exchange rose in these three years from la 13d gold to practically 1° 6d gold With the use in the gold value of the rupe's abstantially above the pre war rating gold has lately been cheaper in In his than at any time during the past generation It is, therefore no matter for surprise that imports of gold have recently been on an unprecedented scale Although efforts have been, and me being. made to encourage the investment habit in India changes in this direction are likely to be of slow growth and it must be assumed that with gold relatively cherp India a demand for the metal is likely to continue to be large. Imports of commodities have been relatively low in recent years doubtless in part owing to high prices in the manufacturing countries If gold prices decline the tendency may be for India to take a larger part of the payment for her exports in commodities rather than in gold The question of these gold imports his an important relation to the fitting of commodity sides of gold that is gold priver generally but there does not seem any reason to think that India's absorption of gold is likely to militate against the main tenance of the rupes exchange in the future any more than it did in the pre war period
- 6 The utblisation of gold in India as currence is a separate but connected issue with a long history behind it. The views of the Bubington Smith Committee will be found in parts 66 S of their Report. The question of opening a gold mint in Bombay has not been a practical one in secent years owing to the exchange position being out of useful with the statutory ratio. But the issue must be expected to arise again if and when a new effective gold parts is established and a dimand may be interpreted that a branch of the Royal Mint for the comage of gold should be reopened in Bombay as recommended by the Babington Smith Committee A new factor bearing on the case is the decision of Ilis Majesty's Government not to give facilities for the circulation of gold coin in the United Kingdom at present
- 7 If it is held that the time is appropriate for measures to be taken to stabilise the exchange value of the rupee the question of the ratio has to be considered not from the point of view of the pre war airting or from the point of view of the almoral conditions ruling towards the end of the war but from the point of view of the ruling ratio and the parity of Indian and world prices. It is certainly a strilling fact that, so far as the present writer knows the Indian exchange is the only important exchange in the world that has appreciated in terms of gold and it may be asled why the pre war rate should not be re-established in India as in the United Kingdom. It is not proposed to pursue this question here beyond observing that the history of the

• Of answer to a quest on in the Counc lof State 30th January 1924 — Fie Li la minis are prepared to con golf as soon as the lemand to gli currency arises but no such demand can arise long as the present preu un on golf las con pare I with its statutory purity ex sti.

British and Indian currencies since the outbrest of war and the economic conditions of the two countries, are widely different. The breal down of the 1s 4d exchange and the progressive rise in the rupee exchange to 2s and those must be regarded as having deprived the old 1s. Id ratio of validity similarly, the collapse of the 2s ratio embodied in the Indian Counge Act of 1920 and the disappearance of the conditions under which that ratio might have become effective, have deprived the 2s ratio of the sancity ordinarily at theing to currency law.

These rutos have now an historical and academic interest. If it were desired to direct currency policy towards their re-establishment it would be necessary to justify that policy, not by arguments based on past history, but on the economic factors of the present.

- 8 For the purpose of this part of the discussion it has been assumed that a period of relative economic stability may be expected otherwise it would presumably be considered inexpedient to attempt at present the permanent fixation of the rupee On this hypothesis it may be asked what would be the effect of re establishing an exchange rating of 1s 4d? Seeing that the rupes exchange has now ruled it about Is tid for so ne time it must be presumed that the adjustment of prices and wages in India to this ratio has been continuously in progress and that prices that a permanent lowering of exchange would involve a serious disturbance of values Doubtless the period of fulling exchange would result in immediate profit to some industries which would be able to increase the rupee price of their products without at once having to meet a corresponding increase in the costs of production As regards these costs experience has shown that adjustments of wages in due course follow a rise in the cost of living and the temporary advantage disappears on the readjustment of costs and wages to the reduced purchasing power of money. It may be asked whether it would be necessary or expedient to increase the nominal wages of Indian labour, urban or rural in the event of a decline in the purchasing power of This is a question on which first hand evidence is more readily obtainable in India than in this country, where up to date statistics are not wailable. Figures for the year 1322 from the Bombay Presidency tend to show that the real wages of labour have risen since 1914 except in the case of field or ordinary labour in rural areas, the largest increase, that of ordinary urban labour, having been about 12 per cent. The bearing of this position on the Indian cotton industry, subjected to vigorous Japanese competition, may be developed by witnesses in India Others will be in a position to speak of the importance of maintaining the standard of hing of the workers
- 9. I rom the point of view of Government a reduction of the exchange ratio from 1: 61 to 1s 44 would have far-receiving reactions throughout the administration. One immediate effect would be to increase the burden of the home charges by approximately Rs. 6 cores per annum which would milittle against the execution of important financial measures that the Government of India lavie in view. The Local Governments would also suffer severely from any rise in general prices consequent on a decline in exchange. This would again spike financial equilibrium and the process of readjustment would ruse fresh and embarrasing problems affecting the incidence of traxition. It should be noted in this connection that an important part of their income is derived from the land revenue, which is either permanently fixed or only capable of slow apparent over a restneded period.
- 10 There are also objections assuming again that the period ahead is one of economic stability to directing policy towards enhancing the exchange value of the rupee. Such a policy would if it became effective, mode the reduction of the rupee prices of Indian produce and would inflict a serious tax on industry until costs had been reduced in correspondence with the increased purchasing power of the rupee. This process would impose an unnecessary strain on industry at a time which is generally recognised to be a difficult one for business. It has to be remembered that the recent rise in exchange to 1s b? as has been points I out in Memorandian \$\lambda_0\$ I has been assisted by the rise in world prices, which enabled the excl.

. . . .

making this a governing consideration in dealing with the Indian exchange and for exposing Indian tride in the process to grive risks and uncertainty. It will also be realised that any announcement of the intention of Government to stabilise the exchange at a ratio either above or below the ruling rate would be likely to introduce disturbing factors into bismoss and to encourage specialistic.

11 The above arguments point to the conclusion that, if it were desired to-day to stabilise the rupee exchange, this should be done with reference to the ruling rate, viz, 1s 6d, ie, the sovereign would be equivalent to Rs $13\frac{1}{3}$ and the gold ruing of the rupee would be 8 47512 grains of line gold.

Figures showing the market rate of exchange in recent months will be found in Appendix \(\) As regards these it will be observed that the rate has ruled in the neighbourhood of 1s of since October 1924, and it must be assumed that prices and wages have been adjusting themselves to this rate throughout the period from this date. Moreover, in the absence of unforceseen developments, there would appear to be no abnormal risks in a policy annual at stabilisation at this livel

- 12 These observations apply, of course, to existing conditions The situation may conceivably change before the Commission reports, and it may be necessary to modify in import int respects the views provisionally expressed above in the course of any later evidence that the Commission may require
- This rating it may be observed incidentially formulaes a relatively convenient parity for expressing a stabilisation at some other point which did not formula these two furthers and a choice had to be made between them the a transages of being able to convert the sovereign into an exact quivalent in Indian currency especially if it is made legal tender in India description.

I VIENDIN I

Rupee Debt of the Government of India maturing from 1926 to 1935. Amounts outstanding on 31st March 1925, modified as a result of Conversion Loan of 1925.

6 per cent Tive Year Bonds, 1926	-	-	-	-	20,11
6 per cent Tive Year Bonds, 1927	-	-	-	-	20 01
5½ per cent War Bonds, 1928	-	•		-	21,83
6 per cent Ten Year Bonds, 1930	-	•	-	-	29,28
6 per cent Ten Year Bond-, 1931	-	•	-	-	11,31
6 per cent Ten Year Bonds, 1932	-	-	-	-	19,49
5 per cent Ten Year Bonds, 1933	-	-	-	-	21,16
5 per cent Ten Year Bonds, 1935	-	-	-	-	4,71
01	tal		-		1,48,2

APPENDIX II. Index Numbers of Wholesale Prices based on 100 in 1913.0

	India exported	Indes	Get	eral Index Nu	rale ra
	articles (a)	articles (1)	Calculta (c)	l' K	USA Labor Bares
1923, January -	- 119	10.	1	ī	·
l'ebruary -	- 147	18;	179	153	156
March -	- 149	187	180	155	157
April	- 117	185	181	156	159
May	- 111	185	178	155	159
June	- 110	186		156	156
July	1 110	181	175	150	153
August	[110	178	170	117	
September .	10)	175	171	1117	151
Ontal	- 136	181	171	150	150
V 1	138	, 182	174	150	151
	- 138	181	177		153
December -	- 115	157	179	156	152
Average for 1923	115			1.7	151
.,	113	179	176	152	151
1924, January	142				
February -		186	172	161	
March -	1 110	202	178	163	151
April		221	179	161	152
May	131	221	171	161	150
Inn.	1 111		176		145
Tl.		215	176	161	117
\uong	177	216	179	160	145
C 1	150	211	180	163	117
Oarel	153	211	179	162	150
N	151	205	161	166	149
D. somil	152	196	180	172	152
December	150	200		171	153
Average for 1924			176	171	157
	146'd)	209(d)	177	161	150
925, January	149	000	-	!	
Tebruary -	116	200	171	170	100
Varch -	119	195	172	168	160
April -	117	195	168	165	161
May	147	199	16º	162	161
June	115	197	161	160	156
July	112	189	157	154	155
August _	112	191	160	155	157
	-		157	158	160
		1		199	160
• The first two columns of 561-1915" (with Addends), jett column, giving the Call).	[i	- 1	1	

[•] The first two columns of figures are based on figures taken from "Index Numbers of Indian Prices, The first two columnates is more one used on against asken in m. inner removage i initian traces, its initial initial

V. The index number of finds experted stricts is unneglisted and is based on the average of the wholesale process of 28 articles including grains, seeds, it a, caster oil, jute, cotton, raw silk, word and and the control of the cotton, raw silk, word and s, skins, coal, lac, saltpetre and image

(b) The index number of Indian imported articles is unweighted and is based on the average of the Of The moder number of Indian imported articles is unweighted and is based on the exerge of the wholesale process of I articles, including sugar, salt, cutton piece goods and juin, raw silk, iron, copper, as elere coal and kerosene oil.

st liter coal and knowns oil

(c) The Calentia general under number is the arithmetic average of the ratios of the individual prices of 16 groups of 45 articles. The index is not weighted except in a crude may be allowing two or (c). The actual averages for 1921 may differ slightly from these figures, which are averages for the company of the individual averages for 1921 may differ slightly from these figures, which are averages of the

£40,000,000

ALLENDS III

	HILL	ווו זומי				
Gold Standard Reserve	Comp	ositioi	n on	30th	Sept	ember 1925.
I_{B}	Luglar	ad				£
Cash at Bank of Lugland	- *	-		-	-	193
Butish Treasury Bills	-	-	-			10,529 931
Securities maturing within	the nex	t two se	ars	-		7,398,670
Securities maturing in more	th in tw	o and le	ess that	n five y	errs	20,150 215
Securities maturing in more	than fr	ve and l	less th	nn 10	ens	900 GOG
British Wai Loan, 1929-47			-		-	960 179
						10,000,000
In I	ndu	-	-	-		Mil

Fotal Allendin IV

Indian Sea-borne Trade in Gold and Silver on Private Account, Norr—The figures in this table exclude transactions which do not enter into the balance of trade

		(oth			SILVER		Totat	
lear	In 1s ets	Experts	\ct I port or \ct Export	In parts	Exports.	Net I aport or Net I aport	Act Import or Net Export.	
1909 10 1910-11 1911-12 1912-13 1913-14 1913-15 1915-16 1916-17 1917-18 1918-19 1920 21 1921 22	Rs lakbs 25 01 8 27 89 3 41 44 4 41 29 1 28 22 6 10 70 4 4 26 0 21 46 8 4 87 11 13 82 0	Rs lall s 334 9 391 4 372 6 371 2 490 3 234 9 35 0 6 2 0 9 0 3 Vii 117 7 16 61 3	Rs hall s 21 66 0 23 97 9 37 76 8 37 57 9 23 32 3 8 45 5 4 19 8 21 45 9 21 45 9 21 60 44 27 9 3	Rs lakl s 12 40 9 11 77 9 11 72 9 9 90 7 8 39 4 11 06 7 6 61 1 1 50 0 2 3 6 0 15 2 10 69 7	Rs 1:L1s 104 5 320 4 663 5 333 4 211 9 103 5 372 0 92 2 0 3 30 0 328 0	Rs lakha 9 36 4 8 57 1 5.29 4 6 57 3 6 64 5 10 01 2 7 7 6 16 0 1 4 8 7 41 7 1 4 95 5	Rs lakhs 31 03 3 32 5 2 0 43 06 2 11 15 2 2 29 56 8 18 46 8 10 17 0 2 03 8 22 J1 5 5 0 32 45 8* 32 11 14 12 16 2	
1921 22 1922 23 1923-24 1924 25 1925 27 (first 5 months)	41 31 4 20 25 3 70 95 0 1 26 1	13 3 6 7 36 2 13 t	41 18 1 20 18 r 70 55 8 12 12 5	2071 4 2175 1 2420 0 819 9	2.33 8 3.40 0 4.20 3 73 7	18 17 6 18 73 1 20 05 7 7 46 2	59 35 7 42 57 7 90 64 5 19 58 7	

^{*} I index as a in port Rs _146 v lakhs—tile value of gol i sol i in India by the Government of India.

APLINDIX V.

Rates of Exchange for Calcutta Telegraphic Transfers on London (average of daily rates).

Month	1920	1921	1922	1923	1924	1920
Ianuary - February - March - April - May - June - July - August - September - October - November - December -	8 d 2 3 k 2 5 k 2 1 k 2 1 k 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s d 1 576 1 481 1 758 1 368 1 377 1 788 1 377 1 477 1 477 1 477 1 38	8 d 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 d c c c c c c c c c c c c c c c c c c	8 d 1 5, 6 1 44 1 44 1 44 1 44 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7 1 5, 7	8 d 1 017 1 513 1 513 1 513 1 513 1 513 1 631 1 631 1 633 1 633 1 633 1 633
\verige for year	2 033	1 4,	1 313	1 432	1 ə}	1 6 9 months)

APPLADIA 71

Memorandum No 3, on "Note on Proposals for promoting a Gold Currency in India," submitted by Mr. C. H. Kisch, C.B , Financial Secretary, India Office

The introduction of gold as the sole metallic unlimited legal tender and the conversion of the rupee into a limited legal tender, involve a complete departure from established custom It could not be expected that the change could be given effect to without difficulties and it is necessary to consider carefully whether it offers advantages commensurate with the obstacles that would have to be surmounted and the risks that could not be avoided

It is proposed to examine the scheme from the following points of view

1 Character of the objective 2 Nature of disturbance involved

3 Security of Government during process 4 Cost

5 Alleged defects in pre-war system

Character of the objective

In para 8 of his memorandum on A Gold Stan laid for India Mr Denning states that undoubtedly the ideal to be aimed at is the system now in force in Great Butain under unidoubledly the need to be since at a the second man an once in circum bullion under which the lote is the sole full legal tender in circulation and the gold value of sterling as stabilised by the statutory obligation imposed on the Bank of England to but and sell gold at rates corresponding roughly to the par of exchange

This ideal seems however to be rather lightly thrown over in the statement that it is impossible to hope that conditions in India will for generations be such that a full legal It is impressing to nope that contained at Accessing to a section of some that a run regar-tender metallic currency will be no longer necessary or rather in the proposition treated as following therefrom that a gold currency should be established. India has already the beginnings of the ideal system in (i) the accepted use of a token coin insteal of a full beginnings of the literity statem in (i) the accepted use of a toxen coin instead of a full value coin (ii) the very widely accepted use of notes and (iii) an unmistakable ten lency in recent years to rely less on coin and more on notes. The expansion of the note issue in recent years to let jess on coin and more on notes. The expansion of the note issue has been one of the most satisfactors features in later currency developments. In particular it is wirth noting the large proportion of 10-rupes notes in circulation It is a reasoning the range proposation to to take a notice in encounter. The true wiscom seems to be to continue on the lines on which such remarkable progress has already been made

Thee runuks do not myly that gold comage should not be undertaken m India if the Inner ring as to not unit, and post country and a sound as to connectance in man in the people of India desire that the gold which they import should be stamped in small units people of main neure that me good which they import another of standale on occasion as legal with the toverment hall mark of fineness and weight and he available on occasion as legal with the toternment man make of america, and a tight and to toternment man make of a legal tender but there is all the difference between the admission of gold as legal tender but tender Dut harte to the building of the building and forcing the people anything it an olligation to issue it except in return for bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything it is to be a supported by the bullion and forcing the people anything the bullion and the bullion and the bullion and bullion and the bullion and bullion and the bullion and bul without an originion to issue it except in terain or bounds and noteing the people away from a currency to which they are accustomed and pressing upon them a new currency of a from a currency to which they are accussomed that pressing upon mean their currency of a none costly character whose free circulation it may be difficult to ensure. In so far as the Indian currency system moders the use of gold the best place for the gold is in reserves. finding currency system involves the use of kind are gold circulation which is non regarded as

lt is with considering how far in the case of a country like It did there is any reality It is write consecuting now an in the contemporary of the rupee. It is apparently in contemplating the limitation of the legal tender quality of the rupee. It is apparently In content rung the maintains at the regardence, young of the tupes at it apparently considered and rea onally so that 150 croses of rupees might be required in circulation if consucred and resonants so that not consecut of resonance or acquired in circumanon if the rupce became a limited legal tender. If for my reason there was a return of currency in the ripec nectane a manner negro remoti. of rupees. In the case of a country like halfs, which wash who selected by a manufacture of the daily bounces of the country would it be a practicable thing for the larger of the first backets of the country would be a practicable thing for the larger of the selected by the selected backets of the country would be a practicable thing for the larger of the selected by the selected backets of the selected backets Imperial Bank of redundant rupes currency? It is suggested that even if the refere the Imperial bank of redundant rupes currency: A so suggested that even it the attempt were made to f ree a gold circulation and to limit the legal tender quality of the are upt were made at the sponsor of the sponsor of the supplementation of the supper would still continue in practice to be an unlimited legal tender. Indeed it imper the rupes wants sun common in practice to the conception of a limited legal tender may be asked whether there is any substance in the conception of a limited legal tender may be asked whether there is an substance in the conception of a minici next tenter rupe in the case of India where the rupe circulation is bound to play for in indefinite period such an important part in the economic life of the people

for such an important part in the economic rate of the unlimited legal tender quality of the rupee in the case of a country like India also requires consideration

Nature of disturbance involved

The distributing effects of the proposed plan are fur reaching † In India the rupee has for-generations been an unlimited level tender. It seems that if once the idea spread that generations teen an unimitied regal tenter. At Section that it once the mean spread that this quality in the rupee is to be taken away, the result would be to bring the rupee

^{*} to 31st March 10°s, the circulation of its 10 n (re (1 s (5 s errores) formed 40 5 per cent of the total circulation it is all ref corne affect term ensous de Italiana the representation.

APPENDIX 71 467

into disrepute. It is admittedly not possible to form an accurate estimate of the number of rupees that will be presented for exchange into gold under the scheme suggested. All one can say is that the bullion dealers of India are not likely to miss the opportunity that so rudical a change in the currency policy will afford. Their obvious interest will be to discredit the rupee and collect as many rupees as they can from all quarters for exchange and it may be assumed that the persuntry will pay liberal commissions in the process. The limitation of the exchange to gold bars of 400 cas, the value of which at 1s 6d the rupee is less than Rs 23000, would not give protection, as the point could be met by clubbing and the concerted operations of Indivu dealers.

The possible effect of the offer to give gold for notes does not appear to be appreciated in the calculations regarding the amount of gold required to bring the scheme of a gold circulation into operation. The speculative element here is of the gravest possible kind. The other estimates—of 110 crores of rupees as the total amount likely to be presented of 50 crores of gold as the initial stock &c—are (inevitably) not very securely based. But in this matter of the possible extent of the substitution of gold for notes no estimate is possible vial land no practical limitation can be set.

No indication as to the time that might elapse between stage 1 and stage 2 is given It in certainly possible that the scheme might have to be abandoned before it got beyond stage 1 that is the stage in which gold builton is being supplied for non-currency purposes. It is submitted that a scheme of currency reform of which the progress is so uncertain and of which the process is so extended—a most objectionable feature in itself—could only be justified if by no other means a sound system meeting the requirements of the country could be provided

It is recognised that the large additional drum of gold to India over the ordinary demand which is already large, might seriously affect gold prices and it is suggested that it would probably be necessary to mid es scenal arrangements with the Bank of Fingland and the Tederal Reserve Bord of the United States It is difficult to form a view as to the future trend of gold prices which turns largely on the policy that may be pursued by the great Central Banks. But with the gradual return of the nations of Europe to gold the markets for the metal are increasing and the tendency may be for countries to add to their stool's as opportunity offers with the object of strengthening their note reserves. Is it safe to set aside altogether the possibility of a fall in gold prices especially if the demand for gold was increased by additional requirements for India for the purpose of providing a gold circultion?

If the solution of India's exchange problem is to be essayed while would conditions are still unstable, it would seem inopportune to add to the risks by any action that might tend to cause a rise in the value of gold.

The Bank of England and the Treasury will it is assumed have the opportunity of expressing their views as to the effect that the scheme might be expected to hive on the position of gold and sterling

The attitude that the United States authorities are likely to adopt towards at e proposal is a matter for conjecture but there is one factor in the case which may be say cetel to prejudice them against it. The salver producing interests in the United States are a powerful body and the various Acts ending with the Pitman Act passed for their protection suggest that then are not likely to view without dismay and protest the threat to the solver market involved in the suggested sale of approximately IIs. 200 crores of salver or three years production within ten years. The proposal really means that the salver which the United States Government were induced to supply to In line at a time of great emergency is to be thrown back on to the market. The reactions on China (including her imports from India) of influences tending to depress the price of silver continuously are also worth of notice.

Security of Government during process

It will be observed that the scheme contemplates that the sterling reserves should be used up and resort be had if nece sars, to external borrowing in order to secure the surply of gold to India. What would happen if at an early stage in the progres of the scheme India was affected by the unfortunate vicesstudies to which she is Itable? An order e trade balance would obviously suspend progres for the time being. Vidutional external borrowing might become necessary pro tanto diminishing the power of India to draw gold on the recovert. How far gold in India would be exported is uncertain. The presumplita is that the return it currency for conversion into foreign exchange would tend to take the form of notes and stheir rither that gold and the attenuited reserves might be uniqual to the strain. The position of the Secretary of State might be embrarassed. The credit of India might be prejudiced as the confidence of investors would presumable be affected to the non existence of the large sterling reserves, intherio naturatine! In short the positionity that India would find herself in serious difficultie during the 10 years at entire crossing the stream cannot be overlooked.

As regards the reserves, it is contemplated that during the early stage of the scheme the gold and sterling in the Paper Currency Re erve night be reduced to its 35 of correspond at parantic this would either in its centreit or in the main be held in sterling securities.

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The proposal to make gold the principal metallic medium of the currency apparently arises from a desire to remove what are described as the main defects of the pre-war currency and exchange system,' which are referred to in the remarks below -

(A) 'The maintenance of the system was dependent on the price of silver remaining at such a floure that the bullion value of the rupee was not higher than its exchange value

The stabilised 1s 4d rupee whose effective life covered about 20 years undoubtedly witnessed remarkable economic progress in India and apart from the confusion caused by the war, there seems no reason to doubt that it would have endured to this day. The war the war, there seems to reason to construct a bound make a bound as a construct to time day. The war brook down the gold standard in countries where it appeared solidly established, and it certainly cannot be assumed that if India had been on a gold standard with gold currency when the war begun she would have bread better than she actually did. Had India been on such a standard, and had it been possible or expedient to maintain it (regarding which some remarks follow), she would have been exposed to the full violence of the oscillations of gold values during the war and post war periods. It is reasonable to hold that any rise in the price of silver to a point which would threaten a le 6d rupee would almost any rise in the price of sitter to a point winch would threaten a 15 of rupee would almost certainly be due to a catastrophic deprecation of the purchasing power of gold and would be an element in a general use of prices of an untoward kind. The evils of rising prices in the case of ludas were discussed by the Babington Smith Committee [paras 47 and 48], and have been recognised fully in the conduct of recent exchange policy by the Government of India. It might well be that if the economic history of 1914–20 were repeated Ladias so policy ought in her own exclusive interest to be directed to staying off some of the effects of gold depreciation by a modification of her exchange

It should also be noted that with 150 crores still in circulation whether the ropee is unlimited legal tender or not a use in the price of silver above the bullion value of the coin might in certain circumstances create a situation resembling that which occurred during

the war

The fact that the 1s 4d rupee was broken in the late war is not to be regarded so much as a defect of the gold exchange standard as of a defect of gold as a basis of value at the mercy of Covernments which at a time of national emergency may be constrained to sacrifice currency ideals normally held den Assuming that gold is the best practicable standard of value that the wit of min his hitherto found it fersible to adopt it must be recognised that it is not perfect and that no country can escape from the risks of these imperfections whether It is not perfect and that no control the season of the maintenance of its exchange at a fixed gold party without such circulation. It is per aps worth observing that the introluction of a gold curveney in circulation in that is against the power to promote stability of internal prices at exceptional times when gold prices may be undergoing violent disturbance. In such a case action would presumably take the form of the suspension of the obligation to buy gold at the Vint par and the conversion of the standard coin into an over valued gold tol en

(B) . The rupee was in real ty linked to sterling only and the system ceased to be a gold exchange stan lard as a son as sterling der recrated

When as in pre-war days gold and sterling were synonymous and the Government of India was under an obligation to receive gold com at a fixed price it seems difficult to contend that the rupee was line de to sterling only. The second part of the statement does not appear to amount to more than an ascertion that when sterling deprecate! the authorities for a time did not in fact endeavour to dissociate the rupee from the fortunes of sterling

But some further observations seem required

(1) II, for purpose of illustration the rupee had been linked to the dollar at a fixed ratio and it had been possible to maintain this ratio during the war years and subsequently, it may be asked whether India would have benefited thereby Adherence to the fixed ratio would have exposed her to the extremes of the Adherence to the reter true would have exposed in to the extremes of the fluctuations in the purchrsing power of gold and would have prevented the Government of India from affording such relief as it has now been possible to afford by permitting the r is to 1s of gold. The argument may perhaps be even more clearly appreciated if one imagines what would have happened if the monetary policy of the United States of America in 1920 had been directed towards the maintenance of the then level of gold prices

(2) In framing a permuent currency policy for India it is suggested that due weight must be assigned to the probable identity in the future of sterling and gold like special chrinacter of Indian external trade which is mainly financed in sterling

gives force to this consideration

(3) If India had enjoyed a gold standard based on a gold circulation at the outbreak of wir, it is open to question what her sub-sequent policy would have I een. When the existence of the Empire was in jeopardy and India so war future lung in the balance would it have been consistent with India sown interest to have sought to add to the drain on the limited supplies of gold available when its con ervation was a vital matter for the purpose of employment in foreign quarters? If under some national stre s or emergency sterling were again to become divorced from gold the action to be taken by India cannot be prejudged but would have to be determined in the light of the actual circumstances

This low percentage (30 per cent) of which at best only a small proportion would be gold, seems 112 lequate from the point of view of the convertibility of the note and the maintenance

Sir Basil Blackett with the object of ' re lucing the cost of the scheme suggests that the reserve might eventually contain a metallic lacking of alout 22 5 per cent, and that the gold and sterling assets might unount to about 30 per cent. Here two points may be

(1) The metallic percentage is far lower than his hitherto been regarded as provident for India and is even lower to in that recognised by the United States of America. The right to require conversion of notes into gold may lead on occasion to I early encashments of notes by the public possibly heavier than when payment normally took the form of rupces There should be no possible question as to the alequire of the available amount which should be determined with reference to the possible obligations of the re-eric and not with reference to the cost of a scheme for introducing a gold circulation

(2) After the gold circulation is established the active circulation would apparently on the data resumed consist of about 190 ciores notes 50 crores gold and Litt en res of rupees as compared with 190 crores of notes and 200 crores of rupees under a gold exchange standard It has been suggested above that under the projected plan the rujec will in practice continue to be used as an unlimited legal tender in much the same way as at present A reflux of currency from circulation will presumably comprise at least its due present a remark to contenes from encourage with proportion of rupees is the tendency will doubtless be fix such gold as may be functioning proportion of rupers is the control of the public of the public of the reserves will as currency to be retained as far as possible by the public of the reserves will have to guarantee not only the exchange value and the internal convertibility of the note but will also have to support a rupee circulation of about tw thirds or three-quarters as large as that now functioning as money | The In Iran official mem randa make no provision for the as that now indecoming a money and in the order a men canon make it) provides for the repees outstanding. Possibly the view taken is that the redemption of a certain quantity of rupees in gold will have removed the risk of iclinal int rupees or that a reflux if gold will provide additional support to the exchange It is doubtful how far assistance will be with province authoritions appear to the exchange to reach the place of rupies now forming form a return of geld largely resued to take the place of rupies now forming formeroring from a results of great regers reached to the total currency is at any time redundant a store of value put has evolute that it the rolls containing is at any time renumbrant and a contraction is necessitated to reduce the Indran price level to that of external gold prices this contraction must be effected on the active circulation the rupces in which will press this contribute their quota to the necessary aggregate withdrawal. The size of the presumany control of the note is the note is the but to a possible return of

Cost of the Scheme

Any e timate of cost must be largely conjectural and would be liable to be upset if the demand for the conversion of rupees and notes into gold should exceed unterpation, or if demand for the conversion of topics and note and good amount exceed underpation, or it was found expedient to hold a larger gold reserve throughout or if the sales of either had to be spread over a longer period than proposed. In any case it would seem from the to be spread over a conject person that project that a scheme framed on the lines of the Denning's note would entail apart from the transitional expense a permanent charge, or Defining a note would entail about 18 3 crores per manifer and might in certain which may be conservatively just as moore in a cross per minum and impact in corremnstances exceed this amount. India is not a country that can afford luxuries administration is field up on all sides by paucity of finds yet it is errously suggested administration is need up on an success by paucity of tunds a tell it is seriously suggested that India might be asked to incur for the purposes of supplying currency which would perhaps largely go underground a lingle ceptal loss at substantial recurring charge the currency of the currency of the currency continuation in the United Lingdom a relatively neck country to controlled a gold crucialtion into the United Lingdom a relatively neck country to the fact the currency before the next the fact thought of the country of the country of the country of the currency before the next the fact thought of the country of the country of the currency of t to sentronice a gont carrieron into the context ranguous a resource; rich country from the fact being that such a currency would be

nanguared to such a currency octors the war the fact owing that such a currency would be difficult to obtain in present circumstances and would I e too expensive Can India afford 1? One point in the Indian is emorands, calls for further remark with reference to the cost One point in the monar a consensor, cans for interest conservation and interesting the Paper Currency Reserve with a lower proportional backing of real assets and reducing the non interest leving proportion of these assets it is sought of Jeni assers and restricting the man analysis of links the reduction of the red assets to resent me cost of interesting amounts are themselves made feasible by the introduction of a and the non interest ocaling anothers are entirected in an irestance by the introduction of a gold circulation it does not seem correct to regard these factors as a source of saving Obviously if it e real assets are excessive under to day a conditions and adout either in the Options; it is even users are excessive united to the relationary and admit enter in the aggregate and/or as regards non-interest bearing amounts of safe re-luction then the aggregate analycr as regards non-interest occurring uncounts of sine refluction then the apparent saving from associating the reduction with the introduction of a gold circulation

Alleged defects of pre war system

The difficulties in the way of the scheme are form lable enough and ultimate success is problematical Before the (overnment sets its livid to so precurious a task it is necessity to examine closely the grounds on which the new departure is deemed desirable

[•] Cf jame 42 and 43 of Report of Con a time o the Cortaneva iB ak of E gland has e seems C d 2003 joe

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The proposal to make gold the principal metallic medium of the currency apparently are from a desire to remove what are described as "the main defects of the pre-war currency and exchange system," which are referred to in the remarks below.

(A) "The maintenance of the system was dependent on the price of silver remaining at such a figure that the bullion value of the rupe was not higher than its exchange value

The stabilised 1s 4d rupe, whose effective life covered about 20 years undoubtedly witnessed remarkable economic progress in India and, apart from the confusion caused by the war, there seems no reason to doubt that it would have endured to this day. The war broke down the gold standard in countries where it appeared solidly establishe I, and it certainly cannot be assumed that if India had been on a gold standard with gold currency when the war began she would have freed better than she actually did. Had India been on such a standard, and had it been possible or expedient to maintain it (regarding which some remarks follow), she would have been exposed to the full violence of the oscillations of gold values during the war and post war periods. It is reasonable to hold that any rise in the proce of silver to a point which would threaten a 1s 6d rupee would almost certainly be due to a catatrophic depreciation of the purchasing power of gold and would be an element in a general rise of prices of an untoward land. The evils of rising prices in the case of India were discussed by the Babington Smith Committee (paras 47 and 48), and have been recognised fully in the conduct of recent exchange policy by the Government of India. It might well be that, if the economic history of 1914–20 were repeated India's policy ought in her own exclusive interest to be directed to staving off some of the effects of gold depreciation by a modification of her exchange

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(C) A full in the rate of exchange was presented by the sale of Reverse Councils, but Government nere under no statutory obligation to take such action

The pre-war exchange system admittedly did not raipose on Government a statutory obligation to redeem local currency by payment of international exchange. This, however, must not be interpreted to mean that the Government is not prepared to undertake formal nuss note on interpreted to mean that the objectment is not prepared to undertake format and public commitments on the subject. (Compare announcement issued in connection with Bahington S intl. Committee's liepost.) This point is referred to in the last paragraph of the Memorandum No 5 on "Remittances and the remedying of the 'defect' does not involve the removal of its unlimite I legal tender quality from the rupee or the promotion of a gold circulation

Wien exchange dropped to the lower gold point there was nrautomatic done is an the currency ten ling to strengthen exchange but such decrease defended on the action of Government

It is well understood that under the gold exchange standard the employment of the Gold Standard Reserve in connection with the sale of reverse Councils for the support of exchange, or the use of the sterling assets of the Paper Currency Reserve for replenishing the Secretary of State's balances involve a corresponding currency contraction in India. It is a legitimate question to asl whether this view was embodied with due formality in the currency constitution, but there is no reason why under the gold exchange standard the same influences for contracting the currency should not be brought into operation as under the gold standard in the ordinary accepted sense of the term

How for the element of discretion inherent in the Indian system as hitherto applied is open to criticism is not so clear. It is part of accepted theory that contraction of the internal circulation should be the regular sequel of withdrawals of sterling from the reserves and an exception would presumably only be made owing to some such overriding consideration

as the danger of creating an excessive stringency in the Indian market "

Lader the gold standard, continued losses of gold by the Bunk of England force it to take steps for a general contraction of credit in order to protect its reserves, but it is perhaps a matter of opinion as to how far action can be regarded as automatic. The stage at which measures are taken rests within the discretion of the Bank, and it is obvious also that the course of events depends in part on the readiness of the large lenders of money not that the course of events upperns in part of the resumble, decreasing the cash ratio on which they conduct their business. In fact, it is hardly possible to conceive any system based on credit that is purely automatic. The efficient working of the gold standard depends, as did the efficient working of the gold exchange standard on the wisdom and judgment of those in authority This is apparent not only from secent events in Europe, but also in a noteworthy manner from the action of the Federal Reserve Board in America who have had to take special steps to prevent a great influx of gold from exerting on prices its normal mfluence

(1) "As the our ency reserves were divorced from the landing reserves, effective regulation of the nomey market was impossible

The implications of the observation will be referred to in another connection. But in any case the so-called "defect presumably is due to the fact that the note issue was controlled by the Government and not by the banking authorities It is not traceable to a

gold exchange standard as such

If an attempt is made to summarise the above comments regarding the five "defects' of the gold exchange standard it would seem fair to say that (E) is a separate is-ue concerning the character to be given in present circumstances to the functions of the Imperial Bank, that as regards (C) and (D there is nothing in the gold exchange standard as such which precludes the reproduction of conditions corresponding to those applying to the gold standard as ordinarily understood (A) and (B), which are connected are obviously suggested standard as ordinarily fundersimon. (1) and (1), which are connected are optionary suggested by recent experience examined through war tinted speciatels. The removal of 'defect (B) does not require a gold circulation. 'Defect" (A) is theoretically inherent in any token The problem it occasioned during the war mose not from a defect of the gold exchange standard, but from an imperfection in gold as the basis of value Indeed these two so-called defects in the gold exchange standard were altogether latent before the war, and no practical question would probably have now emerged in regard to them were it not for the experiences of recent years

It 14, of course, light and desirable that whatever currency system is given to India it should be made proof sgamst eventualities so far as these are within the range of reasonable contingency, but the war, with its devistating effects on currencies generally, undermined even the basis of the gold standard In laying down a currency constitution for India, due weight should be attached to the altogether exceptional character of the war I eriod

On a review of the main considerations involved it is suggested-

(1) that from the point of view of the interests of India the objective of a gold circulation and a limited legal tender rupee is wrongly conceived, and that the scheme would, in all probability, fail to achieve to purpose,

*C mpare the portion that arose in 1939 in the period with an attempt was being made to give effect to the common lations of the Bab egion Emith Committee

- (2) that the arguments directed against the gold exchange standard do not justify the rejection of the general currency scheme which served India well before the war, and
- (3) that the drawbacks inherent and the scheme for a gold currency altogether outweigh any possible benefit to be anticipated from its promotion

If avoidable risks are taken by the authorities and needless expense on what would be a reconstruction incoursely. India might too late lance cause to appreciate the warning of the opening lines of Dr. Leyden's 'Ode to an Indian Gold Cont'.

"Slave of the dark and drity mine!
What vanity has brought thee here!
How can I bear to see thee shine
So bright whom I have bought so dear?

The war experience suggests that if India must for long years to come have a full legal tender metallic circulation, the requirements of the country, inclining the desideration of stability, can be met by an appropriate development of the gold exchinge standard. To suggest that the only way of remedying the defects in the pre-war currency system involves the reduction of the rupe, to a limited fegal tender and the foreign of a gold circulation is to ignore the fund inental causes which led to the breakdown of the gold exchange standard in the course of the war.

Note

The general result of the scheme for introducing a gold currency on the lines suggested by Mr. Denning appears to be as follows.—

(Figures in crores of rupces)

	Gol L	6 Tver	G of I	Sterl ng	Gross n te	Stan lard R serve	Heal val es of aggregate assets
Assets of Coverm ent 30th Sept 19 3	ro 7	90 1	43	26 7	183 5	83	1.4 5
Assets of complex on	56 9	-	90	42 6	189 5	i –	29.5
							I OHR W

. Valuing silver at 24d per on and Government of In la sec trities at mil

The trunsaction has involved the evaluage of Rs 200 cores of silver for gold. It is postulated that the sale of silver has produced Rs 100 cores gold, leaving a deficiency of Rs 10 cores needed to meet the publics demand for gold evaluage. This would reduce the Gold Standard Beearte of Rs 43 cores which is required to raise the gold and stelling holdings in the Currency Researce from the initial to the ultimate amount. The balance of the loss in the reserve (Rs 90 —43 core) is made good by writing up the Government of India's dicht to the reserve from Rs 43 to 8 is 90 cores.

The loss shown in the table above—numely 55 crotes—which is the true capital loss, represents the 55 crotes of assets which the Government of India will have ascrifted in giving the public 110 crotes of gold in return for supers which on sale as silver will realise 55 crores only. It is claimed in the Memorandum that the new system can be sifely worked with this reduced quantity of assets that a part of the reduction of total assets can be effected by diminishing the holding of metal, and that there is no effective loss except in so far as the interest, yielding resets also have to be reduced. Thus \(\mathbf{II}\) Denning as shown in the foregoing figures, puts the reduction of interest yielding assets at about 37 croces and the resultant loss of revenue, taking interest at 3 per tent, at 112 lakhs per annum?

The argument seems to amount to this that a scheme of expenditure need not be regarded as costing money if the funds to meet the expenditure are readily available and are not at the moment rielding any return. There are at present some 40 crores (normal) value of temporarily redundant rupees still held in the Paper Currency Reserve as the remant of the last period of depression. To this extent the present some 40 crores are in conditionally safety be replaced as regards rupees 40 crores (norman) amount) by 20 crores (in real value) of interest bearing securities obtained by selling the surplus rupees, and by substituting 20 crores more of new Book Debt. But this, if it were world doing at all, could also by done while retaining the present system. Thus the proper comparison to be made in rigard to the interest bearing assets under either system is one between (a) those now held plus an additional 20 crores and (b) those which mould be held on a gol standard system. On the postulates of the Memorandium the difference would be 57 crores.

* It is not proposed to analyze here in Irial Mr. Det ning set mate of the Iosa in the transitional period. Francisation of the process, however suggests that the figure will materialize exceed like or nate of the Iosa lable.

* While the 'would be a purpos spreadure to effect the replacement is a matter of information at escendishing the control of the proposed o

As the securities in the Gold Standard Reserve amounting to 5, crores, at present yield an average return of about 4} fer cent, the rate of interest for the jurpose of calculating the loss entailed in sectioning 55 croses can hardly be taken at less than I per can. The annual loss must thus be put at 24 crores a year, of which 14 croses is interest now being carned and contributing to the balancing of India's budget and the remainder would accrue as the rupees non surplus were gradually sold and replaced by investments

This understates the potential interest loss, as rupees absorbed by the public in the ordinary course will be taken not at their bullion, but at their nominal value. The 10 crores of surplus rupees thus represent potential erruing power of an additional 10 crons of sterling intestinents, assuing that the holding of god ruinius unchange 1° When the above holding is reduced by absorption to 18° of cores, the rusers of Government would be as follows -

(Figures in erores of rupers)

The interest yielding assets amount to Rs 119 8 crores as compared with Rs 42 6 crores under the Gold Currency scheme to an excess of its 77 crons If interest on its 53 crores is taken at 4 per cent, and on Rs 21 crores at say 3 per cent the adaregate interest loss norks out at about Rs 21 crores per annum

Something must also be added for loss in respect of future profits on country accrued from 1900-15 at the average rate of 1; to 2 crores a year and though a circulation of 150 crorest of rupe's will itself need mainter since the future loss from dumnished profits may be taken at 1 to 1 crose a year. On the whole the perminent less to led in as the result of adopting a scheme for justing 1 10 cross of gold comento circulation can scarcely fall short of a crores a year besides an in lefinite and incalculable amount detending on the extent to which the promotion of a gold circulation checks the future natural growth of the note issue (cf. para 51 of Chunharlam Commission Report)

Su B Blackett in his final Minute (parts 22 and 2) alludes to two possible methods of 're busing the cost viz (1) a silver import duty and (2) the operation of the reconstituted Paper Currency Reserve on a smaller metallic basis and then ore a larger basis of interestyielding securities than that suggested in Mr Denning's hemorandum. The suggests in yearing account tax (and in presing it may be noted a very controversal tix) can reduce expenditure is rather odd. The tix will tend to obscure the true cost of the science, if the enhanced sums received for the sale of rupec-silver in in his will include an element which

is projerly to be regarded as import duty

As regards Sir B Blacketts second expedient there is of course, mide scope for difference of opinion on such questions as those of the total strength of a currency reserve or its distribution between coin and investments. But those who would favour a complete deputure from conservative precedent in propounding a scheme for a Pajer Currener Reserve for India under a gold standard might, it is thought, find equal justile atten or the teeeric for must muce a government and the second of the second department on connection with a gold evelange standard. It is difficult to maintain that a reserve, which has to support a gold currence and indirectly a still considerable rapec currency as well as the altituous lask of a turn over from notes to gold will not be in need of very great strength and liquidity of resources. As has been previously pointed out need of tery great strength the strength of the project of a gold circulation in running the new there is no true saving attributable to the project of a gold circulation in running the new reserve on a smaller body of resources if the same thing could be done with equal safety. or no greater risk (according to the point of view) under the present system

or no greater research and a clement of true economy in a gold currence in so fir as it produces by the return of gold com from circulation the gold for providing sterling credits in times of depression. The point of ens up a rather wide question but it will perhaps in times of depression the point of the state of the times and the period to the times the value of gold and being as compared with the gold, bad money "rather than 'good money" (to use the terms of Gresham's Lam) any metallic returns of the circulating me hum

will be predominantly in the form of rupees

* The process may be fill strated by comparing the post on of the haper Currency Res ris on 301 begiender 19° and 2" ad January 19 6 as below - which will be a second of the large Currency Res ris on 301 begiender 19° and 2" ad January 19 6 as below - which is the large Currency Res ris on 301 begiender 19° and 19° a

(Gold as d sterl ag see	Uross Are Vals	ed at Rs I	3] = £1 and a	ill figures are in	etter lo errora
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[†] Abu tiwe the la of the present entimated a present lation ‡ Out of 110 cross of gold to be sensed the first 50 or more are to be in bell on form

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Memorandum No. 4, on "Transfer of the Note Issue to the Imperial Bank, and connected Questions," submitted by Mr. C H. Kisch. C.B., Financial Secretary, India Office.

The following memorandum relates to the scheme for the future regulation of the paner currency on the assumption that India continues on a gold exchange standard, as set out in paras 7-10 and 16-18 in Mr Denning s memorandum

- I It may be accepted that unless the existing Government note issue is replaced by a brink note issue there is relatively little to be done in the way of relieving Government of its responsibilities in regard to currency control or of increasing the duties of the Imperial Bank in connection with the Indian entriency system. When the Imperial Bank was established in 1921 it was not at the time within the scope of the scheme of the promoters of the smallgrimation or of the Covernment of India; that the Bank should become a bank of issue, 9 but assuming that the Commission are satisfied from the evidence taken in India that no untoward consequences are to be expected from the replacement of a Government note by a bank note the way is open to a number of possibilities
 - 2 The following points of principle may be noted at the outset —
- (1) Apart from any considerations arising out of the exceptional conditions of India there are decaded advantages subject to proper safeguards in relieving the Government of India of certain direct responsibilities in respect of currency management
- (9) The Imperral Bank is not a Central Bank in the sense in which this term is ordinarily understood The mun business of the Imperial Binl is understood to be concerned with ordinary commercial banking operations throughout India and the recent large increase in the number of its branches which is a sequel of the analgamation emphasies this aspect of its business

The question has two sides -

(a) From the Government's point of view it is necessary to be satisfied that the Bank will be proof against the possibility that the discharge of its duties towards regulation of the currence may be affected by its interest as a trading organisation working for profit (b) From the point of view of other banks in India Government must consider whether the

Banl competing for business throughout the country is to be placed in such a paramount position as a us its competitors as must re ult from the control of the note issue in addition to the holding of the Covernment balances

In this connection it is worth while to refer to the part that the Government balances play in the conduct of the Bank s business

Statistics are included in Appendix I showing the a sets and liabilities of the Imperial Bank at the end of each quarter since its constitution in January 1921 and monthly since January 1925, an I percentages are included in the last three columns showing the proportion of each to include the proportion of Government deposits to cash and the proportion of public (i.e. Government) deposits to other deposits. The high proportion of the public deposits to other deposits during consi lerable periods in 1924 and 1925 should be noted The statistics may be compared with corresponding figures for the Bank of England in Appendix II

It will also be observed that the amount of the Government deposits has tended at times to form an excel tionally high percentage of the Bank's cash and on numerous occasions in the course of the last 12 months the Bank's total cash has been substantially lower than the

amount of the Government deposits

The question arises whether it is practicable and expedient in the present day Indian economy to provide for the creation of a Central Bank in the strict sense, that is a bankers bank, entrusted with (covernment balances and the note issue, engaging in rediscount business authorised to bit and sell securities or bullion but generally not competing with other banks for ordinary business. The creation of such a Bank would presumably involve a splitting of the functions now discharge I by the Imperial Bank It is suggested that the Imperial Bank with its established position is the best and perhaps the only possible, organ for promoting the development of banking habits throughout India If it is to continue its pioneer work as a commercial bank, the natural course a suming that the difficulties can be overcome would seem to be in the direction of creating a new Reserve Bank which would take over the central banking duties now discharged by the Imperial Bank along with any

• In referring to this question in 1921 the Government of India remarked. "When a stable policy has been cyclicid and currency cut throws bare settled, been and when the management of the Paper Corrency in India will consist of a more or less position application of authoritatively established principly then we think that the employment of the Bark as our agest in this matter ringht well be favourable one steed.

additional banking and currency functions now discharged by Government that may be deemed suitable for transfer to the Bank. The constitution of such a Bank would naturally

have to provide for the due safeguarding of Government a interests

The memoranda prepared by officials of the Government of India do not refer to any possible developments on the lines alluded to in the preceding observations. The remarks that follow have therefore been drawn up on the hypothesis, apparently assumed in the Indian memoranda that the general character of the Imperial Bank will not be materially changed

(3) Owing to the dual character which the Imperial Bank would have if without any substantial change being made in its functions it were entrusted with the control of the note issue, it is necessary to ensure that the Government should have an effective voice in regard to the higher financial policy of the Bank though the management of its day to day

business would continue to rest with the Bank's officers

The adequacy of existing strangements in regard to Government intervention (vide section 14 of Agreement with Bank) will no doubt be considered. The Governor General in Council is entitled to issue instructions to the Bank in respect of any matter vitally affecting the financial policy of Government or the safety of Government balances and the representative of the Government of India on the Board at present has a right of suspensory veto in regard to any action prejudicial to Griernment's interests under the above named heads should, of course, continue, as should also the provision that the managing governors are tobe appointed by the Governor General in Council after consideration of the recommendations of the Central Board and should hold office for such term as Covernment directs. The management of the note issue might perhaps be specifically mentioned as one of the subjects in regard to which Government should be entitled to issue instructions to the Bank

A furtler suggestion may be mentioned in this connection. Present indications point to an increasing association between the important Central Banks for the purpose of controlling an increasing association between the important central bases as the purpose of controlling the value of gold throug, here credit policy. India as a credutor country with a large power for absorbing gold is an important factor in the case. Linson has already been established between the Banj of Fingland and the Jupperial Bank, through the Advison Committee in London It might help the interests of Government if contact were established between the

Secretary of State in Council and the Advisory Committee

(4) It appears necessary that whatever arrangements are made regarding the functions of the Imperial Bank in respect of the note issue they should not have the effect of impuling the freedom of Government to deal with its own balances as it thinks fit. There are strong objections to attempting to tie up the Secretury of State by an advance monthly programme or anything of the kind. It seems cardinal that if Government deposits funds at a bank it should in a general sense be free to deal with those deposits as it thinks fit should in a general sense be free to deal with more deposits as it minks it. The action to be taken in regard to reinitance of Government bulinees from India to England cannot be foreerst with any accuracy for any length of time ahead, and if the evenings and other cremmstances are favourable it must be open to the Secretary of State to require termitances to be made to I onden as he deems expedient. It appears impossible for the Secretary of The action to be to be made to John of as he means experient in appears impossible for the Secretary of State who has constitutional and statutory responsibilities to be eatisfied with an obligation undertal en by a hank however eminent, to keep him supplied with funds. The communents which the Secretary of State has to meet in London to holders of India sterling debt and others are his commitments, and it is desirable that the Secretary of State should retain in his hands the power to arrange his finance as he thinks expedient in the light of ever changing circumstances. The question of the agency for the transfer of funds from or to India is of course an entirely distinct issue

(5) There appear to be strong arguments in support of the view that the Gold Standard Reserve should be munitained as a separate fund in the hands of Government The Secretary of State who under the existing constitution is responsible to Parliament for the good good government of India enjoys statutors borrowing powers, which may be brought into play in the ultimate resort in the discharge of his daty as custodian of the Indian exchange. It and thinnane resort in the distribution of the responsibilities that he should hand over the control of the re-erre which must be employed for the support of the exchange, to another Further the policy to be pursued in regard to the remutance of Government authority. Further the policy to be pursued in regard to use remutance of the embedding in the first to which it is suggested that the control of the Secretary of State should be beyon! question, has a close bearing on the exchange and the responsibility for its maintenance

this line of reasoning accords with the view regarding the scope of a State Bank, this line of reasoning account to the Report of the Royal Commussion of 1913-1 ip 78) that "the custody of the Gold Standard Reserve and the ultimate responsibility for the maintenance of

exchange must remain in the most direct manner, with the Secretary of State

(6) The conversion of the Government note issue into a bank note issue and the general modelling of the Indian exchange arrangements so far as may be, on the lines familiar in

* It is worth noting in this connection that the Secretary of State s briances in London cars interest which in recert years has amounted to about £100 000. The existence of this important source of receives will dead these not be overlooked in any proposals that may be made in regard to the Home

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this country, must not be allowed to obscure not only the difference between the character of the Imperial Bank and the Bank of England, but the difference between London and Indian monetary conditions generally An alteration of Bank rate in London sets in motion a number of powerful forces which influence the exchange and the level of internal prices Owing to the organic unity of the credit system on which business is conducted in the United Kingdom the reactions of the Bank policy are at once felt throughout the country (and abroad), but in India where the credit system is comparitively undeveloped, and the money market is less organic, changes in the Bank rate have not the same vital force Presumably it is to this factor that the well known difficulty of effecting deflation in India is ultimately to be ascribed Occasions may arise when this problem may have to be tackled with a high degree of independence and resolution. It is suggested that the Imperial Bank will be fortified in taking the steps that may be necessary if the ultimate authority of the Government is adequately meserved

? For the above reasons it is proposed, in discussing the scheme for the creation of a bank note issue for India to distinguish, so far as possible between the Bank's responsibility for the convertibility of the note and the Government's responsibility for the maintenance of the exchange. It will now be convenient to refer to the different beads under which the scheme is set foith in part 7 of M. Denning's Memorandum. On the whole, and subject to the comments that follow, the sistem outlined seems generally suitable and returns with appropriate changes the guiding factors which serve to secure exchange stability under the pre-war system

(A) Gold coin, ban notes, and silver supers to be unlimited legal tender -The question of gold 1- referred to below

(B) Government to be under an obligation to give gold coin in exchange for gold bullion on payment of a segmorage to core minting charges—Presumably this does not mean that Government must maintain a stock of coined gold, but merely that it will undertale to convert buildon presented into coin. Such builton if presented by the Imperial Bank would presumably remain part of the Paper Currency Reserve during the process of coinage

(C) The Imperial Bank to be under an obligation to bing gold at a fixed price—This reproduces the obligation formerly devolving on Government to give local currency in exchange for sovereigns the development being that local currency will be given in acchange for sovereigns the development being that local currency will be given in acchange for bullion to be coined as required under (B) ? The amount of gold going to India would presumably be carefully controlled by means of the studing offer, made with the approval of Government to sell rupees at a sterling price corresponding with the upper gold point (D) Bank notes to be payable on demand in rupees or gold coin at the option of the Bank, subject to the right of holders of notes of the denomination of Rs 10000 to demand payment

in foreign exchange at a price corresponding to lower gold point—The object of this provision appears to be to give the Bank an incentive to maintain the exchange value of the rupee but there is something artificial in making a differentiation between one category of note and mere is someting arguetar in loading a omerentation between one takegor of how and others, and it is suggested that the necessary meetive to the Bark might be more appropriately given in another way, which would emphasise the fact that the ultimate responsibility for the exchange value of the rupee rests with Government while the convertibility of the note is the responsibility of the Imperial Bank. The object to be aimed at is to secure that as at present, the sterling (and if necessary the gold) in the Paper Currency Reserve should be used for contraction of the circulation and thus indirectly for the support of the rupes, and that these resources if thought desirable, should be drawn upon before recourse is had to the Gold Standard Reserve It would seem that this aim would be achieved if the Imperial Bink were placed under an obligation to sell to the Government of India if they should so require, against payment in India gold at par or sterling at lower gold point up to the limit of such resources in the Currency Note Reserve ‡

 $(\hat{\mathbf{L}})$ The Bank to be under an obligation to give silver supees or notes on demand in exchange

for gold corn -This is understood to mean that the option is with the Bank

* Compare M. J. M. Keynes Indian Currency and Finance 1913 — The Presidency Banks publish an official minimum rate of discount in the same manner as the Bunk of England. As an affecting: an omerat mulmular rate or usecount in 11 s time manner as the Built of Engrish As an attacking influence on the money match; the Presidency Bank rates do not stand and do not predicate to stand in a situation comparable in any respect with the Bunk of Inglands. They do not attempt to control the market and supply an index to be they rathe follow the market and supply an index to the general position

Prior to December 1906 the Government had been prepared to receive gold bullion in exchange

1 Fror to Licember 1300 the toverment had been prepared to receive gold bullion in exchange for rupies

2. The proposal would operate as follows — Fixchings it may be assumed reaches lower gold point. The proposal would operate as Electromagnetic property of the credit of the Home Tressury in London against a debt of Rs 13 cores notes which are account in India. The Bank their withdraws from its cash belance Rs 13 cross notes which are examelted, it as effecting the appropriate currency contraction. The sterling would be sold if exchange remained at gold expert point by the Imperial Bank as the agents of Government to remitters or would be available for meeting the Home Charges.

It appears noncessary to contemplyte the assue of drafts by the Imperial Rank psyable in contries catalle Great Bitan as the United Kingdom may now be presumed to be on a gold standard and Indivar the less normally famoured through bondom

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Covernment of India securities a natural operation which goes towards undoing the

writing up of the e securities when the reserve was valued on a 2s basis in 1920

There cannot be a question but that the reserve is of great strength. The metallic ratio exceeds 60 per cent. The sterling and gold form approximately 'O per cent. If the silver is valued on the base of 304 per or (standard) the real assets in the reserve represent nearly 60 per cent of the gross circulation. The silver holding is higher than is necessary, and it is worth considering whether step- should be taken to reduce it somewhat by gradual sales the proceeds being converted into sterling securities. In such a case the natural course would be to finance the transaction from the Gold Standard Reserve to which the comage profits were cre lited. But the strength of the Currency Reserve is such that as a new start is In contemplation it would be permissible to finance the loss by increasing the Government of India's debt to the reserve Obviously the proportions in which these two resources might be invoke I offer room for different opinions

Ultimately no doubt as tupee absorption continues silver would have to be repurchased and the question is to whether some siles of silver would be expedient depends in the main on the funureal issults to be anticipated. These it will be seen from the cilculations in Appendix III turn 'largely on the difference between the selling and loning parce of silver. It is in a sense a speculation in silver. On the whole, it may be doubted whether there is afficient desired respectitions is served to the smooth and in the desired varieties and whether it will not be preferable to allow the present surplin to be reduced intomatically by natural absorption.

As regards gold it is evident that so long as sterling and gold are synonymous a gold.

exchange standard could be worked with a greater or lesser amount of gold or even with no gold at all as suggested in Sir Basil Blackett's scheme for a sterling exchange stindard If In ha is to continue to hold some gold despite the cost, it must presumably be on the understuding that the gold is for use either for export in support of exchange or for issue as currency in the event of any unexpected crisis. By holding a certain amount of gold. India pro tanto protects herself against a possible depreciation of sterling and incidentally the helding of some gold would enable India in an emergency to give some support to sterling in the atthibits of which she would have a tremendous interest by reason of her large investments in sterling and the important put that sterling plays in the trade of the country. Further, apart from any question of sentiment to which due importance must be attacked the holding of gold by Binks of Issue is sanctioned by established practice and has long been customary in the case of India If, for these or other reasons at is considered desirable that India should continue to hold gold in the Paper Currency Reserve different opinions may legitimately exist regarding the amount that should be so held. It is, however suggested that the amount should be carefully regulated and that except for the purpose of muntuming the statutory metallic ratio. India should not in present circumstances um at holding more than Rs 30 crores of geld, and that interest bearing sterling securities should be regarded as the main backing of an expanded is ne If gold is to be available for issue as local currency it main backing on the quanties are a good as to be added as a fined currency to valid be convenient that there should be uniting facilities in India. The Bulgargon-Smult Committee preferred the sovereign to a specific Indian coin, but a new factor would be introduced if exchange were stabilised at 1s 6d, as at this figure the sovereign would not be equivalent to an integral number of rupees On the whole practical considerations seem to indicate a specific Indian gold coin

In the light of the above observations a possible scheme for the reserve might then be

established on the following lines -

(1) The minimum metallic percentage to be ordinarily 40 per cent of the gross circulation and the inductory assue to be ordinarily limited to 60 per cent, the Bank to have the power to increase the invested proportion of the reserve to 70 per cent on payment of a tax which would vary with reference to the degree of excess eg 6 per cent if the metallic ratio is less than 40 per cent but more than 3.5 per cent, 7 per cent if the metallic ratio is less than 35 per cent but more than 32! per cent 8 per cent if less than 32! per cent but more than 92! per cent 8 per cent if less than 32! per cent but more than 30 per cent (2) Of the metallic holding Rs 50 crores to be fixed as the normal maximum of silver

rupees. It would be necessary to allow the silver holding to exceed this figure until the present surplus had been absorbed I agree with Sir B Blackett that there is no need to prescribe a minimum for the silver holding but it seems a question whether it would not be desirable to give the Bank a small share in the profits of the note issue in order that they might have some interest in avoiding an excessive holding of metal-possibly by allowing a small percentage of the yield on the sterling

investments beyond the initial figure

The metallic reserves would normally be located in India subject to a reasonable margin of time for ship ments

(3) Of the securities in the reserve the rupee securities not to exceed one-third of the gross circulation, the Government of India securities to be limited to Rs 43 crores

The object of this provision is to offer scope for the inclusion of an increasing quantity of suitable internal bills of exchange of short maturity if the rediscount market develops

The remainder of the securities to be short term British or Colonial Government

securities expressed in sterling

APPENDIX 72

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There cannot be a question but that the reserve is of great strength. The metallic ratio exceeds 60 per cent. The steeling and gold form approximately 'U per cent. If the silver is valued on the basis of 30 l per or (standard) the real usets in the reserve represent nearly 60 per cent of the gross circulation. The silver holding is higher than is necessary, and it is north considering whether step-should be taken to reduce it somewhat by gridual sales the proceeds being converted into sterling securities. In such a case the natural crurse would be to finance the transaction from the Gold Standard Reserve to which the comage profits were credited. But the strength of the Currency Reserve is such that as a new start is In contemplation it would be permissible to finance the loss by increasing the Government of India's debt to the reserve.

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As regards gold it is evident that so long as sterling and gold are synonymous a gold exchange standard could be worked with a greater or lever amount of gold or even with no gold at all as suggested in Sir Basil Blackett's scheme for a sterling exchange standard If India is to continue to hold some gold despite the cost, it must pre unally be on the understanding that the gold is for use either for export in support of exchange or for issue as currency in the event of any unexpected crisis By holding a certain amount of gold India pro tanto protects herself against's possible depreciation of sterling and incidentally the holding of some gold would enable India in an emergency to give some support to sterling in the stability of which she would have a tremendous interest by reason of her large investments in steiling and the important part that sterling plays in the trade of the country luither apart from any question of sentiment to which due importance must be attacked the holding of gold by Binks of Issue is sanctioned by established practice and has long been customary If, for these or other reasons at as considered desirable that India should in the case of India continue to hold gold in the Paper Currency Reserve different opinions may legitimately exist regarding the amount that should be so held. It is however suggested that the amount should be carefully regulated and that except for the purpose of maintaining the statutory metallic ratio. India should not in present circumstances aim at holding more than Rs 30 crores of gold and that interest bearing stelling securities should be regarded as the its outcomes of given and that micross beauting sterling securities anothed be legarited as the menu bed ing of an expanded issue. If gold is to be available for issue as local currency it will be convenient that there should be minting facilities in India. The Pubington-Smith Committee preferred the sovereign to a specific Indian coin, but a new factor would be introduced if exchange were stabilised at 1s 6d, as at this figure the sovereign would not be equivalent to an integral number of tupees. On the whole practical considerations seem to indicate a specific Indian gold coin

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The object of this provision is to offer scope for the inclusion of an increasing quantity of suitable internal bills of exchange of short maturity if the rediscount m what develops

The remainder of the securities to be short term British or Colonial Government

securities expressed in sterling

Assuming that the gold holding is rounded up to Its 30 crores and that silver absorption proceeds, the reserve might eventually be expected to assume the following complexion, which allows for the replacement of silver by sterling securities -

This hypothetical change in the composition of the reserve would lead to an increase of about Rs 40 crores in the earning assets, representing an unnual interest gain of about

- 5 The question of the restrictions to be placed on the exchange operations of the Imperral Bank of India is discussed in Mr Denning's Memorandum on the assumption that, subject to proper safeguards, it is appropriate to entrust what is primarily a commercial bank with the wide public responsibilities involved in the transfer of the note issue without making any material change in the character of the business it may undertake. It is obvious that the control of the note issue involves the grant of permission to the authority controlling it to transfer funds freely between India and London, and there seems no reason in that case for restricting the operations to one centre. From this point of view the words "in India in (a) of the conditions set out in para 17 of Vr. Denning s Memorandum seem unnecessary
- 6 The question is to the method by which the Covernment should continue to obtain the profits of the note issue, in the event of transfer to the Imperal Bank, is a matter of the profits of the note issue, in the event of transfer to the imperior bank, is a motter of detrail which is capible of solution along different lines. There will be practical difficulties in fixing a fair percentage to be paid by the Bank for a period of five years on the invested portion of the reserve above the fixed minimum which would be free in order to cover the portion of the reserve above the nary minimum which would be need in order to cover the cost of administration. Oring to the variable character of rates of discount, any figure cost of auministration. Owing to the variable character or rates or discount, any figure adopted for five years would almost certainly be to the detriment of one party or the other, and involve claims and counterclaims. The suggestion is offered that if the matter is dealt and intode crimis and connectioning. Any engagement is occur and it are matter is dear with on those lines the percentage rate for each year might be based on the actual rate of the previous year, and on the amount of securities held during that year. This leaves over for previous year, and on the musual in securities here to be adjusted expost facts in the
- 7 Reference may here be made to certain banking duties performed for the Secretary of State by the Bruk of England

Under class of Linguistic Under class 23 (2) of the Government of India Act, such parts of the recenues of India Conter critice of Color in Color and all mones accruing in the United Kingdom for are remitted to the United Kingdom for the purpose of the Government of Indra, law to be paid into an account at the Bank of

gland I nder amous E ist India Loans Acts it is provided that the registers of the loans should their various List their state of the Secretary of State or at the Bull of England These

registers are now acquired the state of the Secretary of State is in the bunds of the Runk of The custody of securities held in the Secretary of State has entered into agreements with the Bunk of England—Tugland The Secretary of State has entered into agreements with the Bunk of England— Ingrand the recreated or some new manager and specimens and the frame of engineering (a) in respect of his bilince and the printing of currency notes, the agreement not expiring (a) in respect of ms ordinece and me primary or currently more, are agreement for expiring until 1921, and (b) in respect of the management of the India sterling delt, the agreement once expiring mult 1920. The printing dottes will be trunsferred to India on the cypity of the agreement. The relations between the Secretary of State and the Bank of England are the agreement the reasons between the creating of some many of the standing minimite and cordial, and the Bank is in a position to render, and has continuously rendered, mestimable services to Indian finance—services which only a bank of the standing an I authority of the Bink of England could render

Appendix I Appendix Sank of India.

ler findle findle lepos te ·-- v ------24 62 62 24 7 62 63 24 7 63 63 5222772222 222 ಕನವಾದ 2222 fp blo 등 기다 보다 등 기치 참 또 당 20022-00-120 nozn 00-00+3 2255 94842224248 \$3.00 25:22 = # = # = # = # 250023 254862 42#2 ¥£\$2 **5253** 242527256252 2288 2522222222222 2==2 4222 ,2227F 92.29 3338 2222 222222222222 37.58 ⊒₉,38**±**3 2218 2288 2858 2522882255 2422552225224 2422552325 772537 9538 5 2 2 3 ĭ 287.2 #×7.8 25.58 \$83<u>\$</u>23<u>\$8</u>28<u>8</u>28 *27778 2282 20214852887 건물보다 #978 [88] 12.25 8888 86255555555 2552 ±262 3225 8022 1214255242C *88658 4444 2223 2422 9222524TCT88 NN PTS R*1 kl* 7 7 1 9 7 7 7 30 12 87 7 2 8 03 53 10 30 13 구워요지 2292 **\$**₹\$0 2228882258522 ---128422548405 8239 9824 z = 22 221.9 Ξ 33.55 ## I=# 857#85# 2233 #25E ×97757 - ž 728822 72882 1222 8232 8232 2823 2222 ភ្នងនឹង រ 2025 경우으켰 일일일일 132222222 ×24228 × × 42.23 2223 2223 2282838282413 그부드길 Έ 8554 8773 2282825885== -/ 2772 2233 243428244433 *625-8 8509 8238 ಶಭ್ಯ 2×58 2258 8038 0 = 17 22.22 855556835578 2473 おけばい - × ನವ ಪಿ=್ 26428488444 2222 2223 2423 7,3 8888 8 14 ec. = 88881111111 glll 118 2 | 18 IIII7 18 9468446841284 22.25.25 52.25.25 52.25.25 52.25.25 2753 2842 2522 1 244825578523 5482 8202 8:22 5.7 25.53 25.5 7752 5858876875477 227725 ÷224€ 222222222222 *05223 2727 2532 o ± 5×38 552 3775 322888888228 3 22244340888 8550 8800 <u>eo</u>88 88888888888 *83288 8723 lalı enjtakad serve 72223 72223 2000 2525552555 2525 77.75 22222222222 _ 3 <u>-</u>-Ster 1 1 e her 1925
27th Jubra wy 27th Jubra wa 27th West World was 10ch of 10c 1924 Vinct = # 9 - # 9 - ° 7≅ Jure Jun e #87.E ázfź 7255 2225

APPENDIN II

Bank of England

Date	Publ c deposits	Oti es dej osits	Cast (notes anl can)	l eace stage of each to l abilities	Perc 1 tage of pulle deposits to casi	Percentage of I ubl c deposits to otl er deposits
1920	£ (millions)	£ (millions)	£ millions)	Per cent	Percent	Per cent
15th December	19 4	12(1	14 0	J 6	138	Ιυ 4
1921						
16th March 15th June 14th September 14th December	18 9 15 9 15 1 13 8	107 2 131 1 129 5 140 9	18 6 19 3 21 6 22 1	14 8 13 1 14 9 14 3	101 3 82 2 69 5 62 6	17 6 19 1 11 6
1922						
1 ith March 14th June 1 ith September 1 ith December	18 9 17 7 10 4 10 1	115 6 110 1 J13 4 114 8	21 5 25 4 23 8 22 7	18 9 13 8 19 2 18 2	743 699 457 445	164 161 92 88
1923.						
14th March 13th June 12th September 12th December	15 6 11 0 15 7 11 6	109 5 108 8 106 5 116 9	24 3 23 2 23 3 21 5	19 3 19 3 19 0 16 7	64 4 47 4 67 6 5° 9	14 3 10 1 14 8 9 9
1924		ļ				
12th March 11th June 17th September 17th December	19 3 10 7 10 4 10 6	105 6 122 3 111 7 108 8	22 8 21 8 24 0 22 8	18 2 16 4 19 7 19 0	84 5 49 2 41 3 46 4	18 3 8 8 9 3 9 7
1925						
14th January 11th February 11th March - 15th April - 13th May - 17th June - 15th July - 12th August 16th September 14th October 18th November 16th December	11 7 9 6 13 7 14 8 17 4 13 4 12 6 15 7 17 1 8 5 15 1 10 7	117 9 115 1 110 5 110 3 102 2 109 6 115 2 110 7 111 0 103 4 106 6 118 3	22 2 23 5 24 2 25 8 31 4 38 8 37 3 32 5 26 4	17 1 18 8 19 4 21 5 25 5 29 9 30 6 29 0 29 0 21 5	52 6 40 8 56 7 54 5 67 6 42 6 33 0 40 b 46 7 26 0 57 6	99 83 124 134 171 122 109 142 157 82 142 90

APPENDIX III "

(a) Hypothetical result of selling Rv 15 crores silver until reputchase of some amount is necessitated in order to keep silver reserve up to Rv 50 crores, normal absorption being taken at Rv 7 crors per annum. It will be seen that un the sixth terr there vs a loss of £927,000 against which interest recepts amount to £651,000. The sale purce of silver is taken at 300 per standard onnee and purchase purce it 340 ner standard onnee.

P rost. Stock at be		at be	Absorp.		Sales at 304 per la standard outco.		l'un hasse at 24? per stand and orace		proceeds	lear a interest	
			of year	t: m	Amount	Proceeds	imount	Cost,	of year	(szles- purchases)	it3jer cent
		1	He ciores	Rs	Rs croses	£	Rs clores	£	Rs	£	£
1st year	-	- 1	90	7	5	2 323	-	_	78	2 523	070
2nd year	-		78	7	5	2 323	i	- 1	66	4 646	139
3rd year	-	- '	66	7	5	2 323	-	_	54	6 969	209
4th year	-		54	7	ł	-	3	1 579	50	5 390	162
5th year		-	50	7			7	3 685	50	1 705	051
6th year	-		50	7	j —	, ~	5	2 632	48	- 927] —
						İ	1		,		631

(1) By taking the sale price of silver at 23d and purchase price at 34d, a loss in the sixth year is shown of £1 395 millions against interest receipts of £575,000

		1		1	Sales	at 28d			ĺ	1	1
				1 1	/	١		ł		1	1
1st year	-	-	90	7	5	2 167	_	1 — 1	78	2 167	065
2nd year	-	-	78	7	5	2 167	-	'	66	4 334	130
3rd year			66	7	5	2 167	_	- 1	54	6 501	195
4th year			54	7	-		3	1 579	50	4 922	148
5th year			50	7			7	3 685	50	1 237	037
bth jen			50	7]	5	2 632	48	-1-395	1
our jeu						- 1				- 500	
				!		. 1		i i		ļ	575
		1		1						1	, ,,

One rapee contains $\frac{55}{118}$ standard nunces of silver —

If it is assumed that its 15 crores of silver were sold in the course of a few years at an overage price of about 294 per standard ounce, the amount realised would be approximately Rs 9 crores, learning a deficiency of about Rs 6 crores which might be made good by increasing the Government of India's securities in the reserves to Rs 46 crores and by diagrang on the Gold Standard Reserve for Rs 2 crores

The result of such an operation on the reserves is shown in the following figures -

	1)	igui es in i	ciores of rat	iees i	
errorition	(-ol 1 -30	Silver	G of I securities.	Sterling scornites 38 4	Reserve 50
			oss circulat 21 3	ton) 120 3	

While, however, silver bullion was being sold, the absorption of silver currency may be presumed to be continuing independently, and for purpose of illustration it may be postulated that its place has been taken by sterling securities. In this case the reserve would present the following aspect.—

Gross	Gold	Silver	G of I	securities	Gold Stands Reserve
189 5	30	50	46	63 5	50
	(Perce	ntage of gr	oss circulat	ion)	1
	15 S	26 1	51.3	33 5)

The real assets are Rs 6 crores lower than in the final table of para 4, as there is no question in this case of a loss on the disposal of silver.

* See also Appendix 75 (1)

APPENDIX 73

Memorandum No. 5, on "Remittances," submitted by Mr. C. H. Kisch, CB, Financial Secretary, India Office.

The method of effecting the remittunce from India of funds required for the purpose of method in needs of the Home Therwir raises a number of points which ment attention The Appendix to thus Note sets forth the position as it has developed in recent yeurs

- 2 The system of buting sterling in India, introduced in 1923, to supplement the sales of Council drafts, which had necessarily to be sold under different conditions from those prevailing before the war (rade Appendix) was adopted with reference to special conditions when the ruptee was linked mether to gold not sterling at a fixed rate and was a currency with a widely fluctuating international value. On the re-establishment of an effective gold parity the range of fluctuation will be limited between upper and lower gold points and so far as the question of nundesirable up-rush of exchange is concerned (which was the origin of the introduction of purchases of sterling in India) it will be an essential element in the exchange system that tenderers of gold should be in a position to obtain ruptees without limit at the new parity, and or that impress should be available against payment in sterling at a price corresponding with the upper gold point.
- 3 It is suggested that a satisfactory scheme for Government remittances must satisfy the following tests -
 - (a) It should be so framed us to give Government the prospect of obtaining the best price for the rupees sold consonant with market conditions
 - (b) It should comply with the legitimate interests of those engaged in financing Indian trade
- (c, It should be so framed as to prevent as far as possible the financial transactions of Government from becoming a subject of controvers
- 4 In consulering the systems of Council sales and purchases of sterling as hitherto effected it is important to determine the following two issues
 - 1) Are public interests better served by a system of open competitive tender or by operations of which the intended extent is not announced in advance?
 - (2) tre public interests best served by operations in London or in India on in both?
- 5 In so far as Government has to remit funds for its own purposes, it is in the position of sem private remitted, and if this were a complete description of their position there would seem to be no reason why Government should regard useful as being under any restrictions in regard to its remittances, either as to place or manner which do not apply to the ordinary trader.
- 6 The object of a system of public tender is to safeguard the interests of Government I. securing the freest competition for the rupees on offer, and there does not seem to be any convincing reason for thinking that private discretionary operations of which the intended extent is not announced in ultrance, would, over prolonged period, produce any better result as regards the rate at which rupees are soid. It is reasonable to suppose that the sale of rupees on the scale nece-stated by the needs of the Home Treasury must in the long run have a similar effect on the market whether these sales are conducted publicly or privately, and in so far as publicity toods to reduce the speculative element, sales by public actions should make for stibility in the exchange
- 7. In considering this question of public and private operations the observations in para 5 have a special relevance. The position of Government is not that of an ordinary remuter owing to the fact that the volume of its transactions give it a preponderation in the determination of exchange tendencies at any particular moment. The proportion between the volume of the Government of India's exchange operations and the aggregate of transactions in the rupe-esterling exchange is probably a image feature in the aggregate of transactions in the rupe-esterling exchange market in its current. These considerations give those cugaged in Indian trade a claim to know the action that Government is taking an regard to exchange operations much in the same war as the binness—community in the United Ningdom are given immediate information regarding movements of gold to and from tellars of England.

the bank of Lagranu. Though on the whole the sistem of purchases of sterling appears to have worked smoothly so far as trade interests are conterned, there have not been lacking signs that the absence of publicity is regarded as a defect. In this connection reference may be made

^{*} Cf ranatks by Mr. V. A. Gralam at meeting of Associate I Chambers of Commerce, Calcutta raported in Statem on of 16th December 1925

APPENDIX 73 483

to the following report of some remarks made by the Chamman of the Lastern Bank at the annual general meeting of the Bank on 20th March 1925 $-\!-\!$

'Referring to the question of exchange, it is necessary to mention a new factor which had presented itself in connection with the recent operations of the Indian Government. Formerly, Council drafts were sold on this side, and the amount to be offered was strictly limited. Of late, however as a result of pressure in India, the Government had purchased sterling on the other side as well. There would be no serious objection to that provided the Government publicly announced beforehand the amount to be purchased during a fixed period. No such announcement however, wis made, the Government came into the market from time to time sometimes even with a manual to day and then suddenly withdraw entirely, thus causing the greatest uncertaints as to their future course of action. He had the greatest expect for Sr Basil Blackett, who so ably administered and controlled the public, finances of India and he was quite satisfied that the practice initiated by him with the full support of man, distinguished Indians was designed, in the use of Siz Basil to achieve the best ultimate result for India. He would point out, however that when exchange operations attained a magnitude so greatly in excess of the actual requirements of the Government so fat as one was able to judge there was an element of druger to commerce it transactions exposed in such circumstances to factors outside the knowledge of the exchange banks who could gauge the requirements of trade and commerce but were quite unable to foreshadow the action of the Government in the exchange market. He hoped that the Government would consider the advisability of adopting for their purchases in India a procedure similar to that Iollowed in connection with the sale of Council bills on this sade

Again the financial correspondent of the Times of India makes the following remarks in the issue of 23rd May 1925 —

The opinion prevals in banking circles that Government should announce every morning the purchases of stetring made the previous day and that movement of public funds should not be kept private. It is contended that the sales of Council bills are made immediately public, and that the same procedure should be followed in the case of purchases of sterling the late and amount of purchase being made public the day following the purchase

- 8 Sales of rupees by open competitive tender place all parties in the same position and area safegurard to Lovernment against any possible question in regard to their extensive and predominating exchange operations. On the other hand to operate in a more or less parate manner may, on occasion invite comment and endanger the full confidence that is a vital asset to Government in its financial transactions.
- 9 Experience has shown that sterling remutances can be effected it satisfactory rates on an extensive scale either in India of in London. If the new is held that it is desirable that remitance operations should be conducted by open tender with the publicity characteristic of the sales of Council drafts the question of the seat of operations has to be considered. Two points may be noted (1) Sales in India? mode the correlation of demails from various centres remote from each other and the head quarters of Government This cannot be as simple or expeditions as the receipt and disposal in London of tenders from the head offices of the Exchinge Brinks and other leading institutions and firms generally attracted in close proximity to the Bank of England Turther in the case of Council sales in London rupees are not issued until the Secretary of State in Council has been pind in sterling. In the case of purchases of sterling in India the rupees are credited before the sterling has been paid over to Government. It is therefore necessary to discriminate in such purchases and the area of competition is thus not so wide as in London where drafts are open to tender by all without distinction.
- 10 Reference may here be made to the measures required when exchange weakens to the lower gold point—a matter ou which some fourther observations are offered in pairs of the note on the future control of the Paper Currency. The Royal Commission of 1913 4 advised that the Government of India should make a public notification of their intention to sell lufter influin on London at a price corresponding to the lower gold point whenever they were asked to do so to the full extent of their resources. This view was endorsed by the Babington-Smith Committee who also approved the practice of offering telegraphic remutances as was first done in connection with certain sales at the outbreak of the war. The Committee recommended (part 6.2 of Report) that the Government of finds should be authorised to announce without previous reference to the Secretary of State on each occasion their revulness to sell weekly a stitel unional of Reverse Councils (including telegraphic transfers) during periods of exchange weakness the rate being based on the cost of slipping

[•] It is worth mentioning that sales of sterling by the Exchange Banks in India as hitherto conducted are understood mormally or at any rate on occasions to involve the payment of a cost in sign by the seller to a broker. This does not arise in the case of sales of rupees through the medium of Council drafts.

gold from India to London. In the announcement issued by the Government of India on 2nd February 1920 (see page 11 of Memorandum 1) effect was given to this proposal in the following terms - In accordance with the Committee's recommendations the Government of Indra will when occasion requires offer for sale stated weekly amounts of sterling reverse drafts on the Secretary of State for India (including immediate telegraph It is desirable that the present Royal Commission should consider whether the decision embodied in the above quotation sufficiently ensures that the exchange value of the rupee will be muntained at the appropriate level. The proper working of the gold exchange standard as developed in India implies that rupees will be obtainable at a price corresponding to the upper gold point without limit \ \complementary condition for the perfect working of the system implies that remitters should be able to obtain gold or sterling exchange at a price corresponding with lower gold point, also without limit sterning examines as a first controlled the new forces of the state of the state of the new forces of the state of the new forces of the state of th reconsidering this question is presented by the improved prospects of economic stability in conjunction with the present strength of the gold and sterling reserves of which the amount on '1st December 19'5 was as follows -

(a) Sterling securities in the Paper Currency Reserve (nominal value)

(b) Sterling securities (market value) and cash in the Gold Standard Reserve (c) Gold in Paper Currency Reserve in India

29 285 000 40 000 000 22 318 000

£91 603 000

The amount under (a) consists entirely of British freasury Bills Present day policy aims at maintaining the Gold Standard Reserve in a high stage of liquidity and of the amount under (b) £9 045 000 represents British Government securities with maturity not amount under 0.7 see three months whereas the balance of the reserve is m the form of securities with ready nurshatability. It would mank a definite advance on the pre-war position if the Commission see their way to advising that the time has come for Government. to announce its readiness to sell reverse drafts without limit at the price corresponding to gold export point. In such a case the arguments for holding the reserve in a highly liquid. form would derive increased cogency

APPENDIX

Recent developments in the system of Government Remittances

Before the war the main method by which the Secretary of State was placed in funds was by sale by open tender of Council drafts' (that is drafts on India) at the Bank of England Subject to modifications necessitated by war conditions as described in the Babington-Smith Committee's Report, the same system was maintained during the war Remittances were occasionally effected by the shipment of gold from India but the amount of such shipments was small, and one of the objects that the Secretary of State kept before him in regulating his drawings was to avoid the necessity and expense of gold shipments

The history of the sale of Council drafts will be found in Appendix VII to the Report of the Royal Commission of 1913 14, and a copy of the regulations of 1915 (containing the pre-war conditions) and of 1924 (the latest form) are reprinted as

Annexure A to this note

The rules now in force differ in two important respects from those in force before the War First they do not provide for the sale of intermediate drafts which were habitually sold, if required by tride between the regular weekly auctions Intermediate drafts were suspended in December 1916, and no question anctions intermediate that such that the resumption of the sale of Council drafts in January 1923 (Since the resumption the place of intermediates has been taken by purchases of sterling it India as explained below) Secondly, there is no provision for the sale of rupees without limit at a price corresponding to upper gold point, owing to the abnormal exchange conditions under which sales have been

During the period of stable exchange, the system under which Council drafts were sold in London satisfactorily met the needs of Government and trade and it is noteworthy that the fundamental principles on which the system was conducted noteworth that the function and the property of the Royal Commission of 1914 or by the Royal Commission of 1914 or by the Babugton-Smith Committee of 1919 (See para 61 of Report)

• In this note unless the context of eranse requires the term draft should be understood as includ of telegraphic transfers

2 In cot sidering the question of the methods by which the funds required by the Secretary of State for the discharge of his liabilities should be driwn from India it is necessary to distinguish between the abnormal conditions of the last few years and the situation as it may be expected to be when the rupee again has an effective stabilised international value.

Between the date of the publication of the Babington Smith Committee's Report and January 1923 there were no sales of Council drafts in London as explained in pura 10 of Memorandum No 1 When the Secretary of State decided in Junuary 1923 to reopen sales market conditions were uncertain and the question of regulating remittances so as to admit of substantial drawings from India and at the same time word unsettling trade give rise to much consideration. It was then decided at the instance of the Covernment of India to supplement the weekly sales of Council drafts by purchases of sterling in India rupees being sold by the Government of India through the Imperial Bank to the Exchange banks against telegraphic transfers of sterling to be placed to the credit of the Secretary of State in London at the Bank of England via the London office of the Imperial Bank extent of the proposed reluttances by sterling purchases in India of the rates at which Government was prepared to effect them were not auno inced in advance nor Government's operations were discretional the guiding were tenders invited principle being to secure remittance on a substantial scale and at the same time to avoid as far as possible excessive fluctuations in the rate of exchange of

3 The following table exhibits the amount of remittances in the years 1922-23, 1924-24 1924-25 and for the first nine months of 1920-16 distinguishing between amounts drawn by Council seles and by purchases of sterling —

TABLE
REVIETINGES BY THE COVERNMENT OF THE SECRETARY OF STATE FOR INDIA
SINGL 1922 23

Yeni	Sales of bils and telegraph c transfers on Ind t by Sec etary f St te	Purchases of sterl g in Ind a by tie Government of Ind a	Parchases by the Secretary of S n c of p occeds of koans ra sed n Lond n hy Indian pub c bod es	Total ren tta ces
19 ² 2-23 1923-24 1924 25 192 ₀ 26 (9 months)	£ 2 570 0°6 8 7.8 70 , 7 579 162 Nil	£ 70 000 13 100 000 33 191 000 37 566 500	£ 2 126 '10 1 302 959 700 000 Nil	£ 4 760 236 23 141 664 41 470 162 57 566 500

From January 1923 to December 1925 the total remittances effected by purchases of sterling amounted to £83 927 500 while the corresponding figure in respect of remittances by Council drafts (including sterling taken over from Indian public bod es borrowing in London) was £23 017 100 In this connection two points may be noted first when exchange movements have been wide and market prospects uncertain it was considered suconvenient to muntainoffers of Councils unless conditions definitely pointed to an active demand for rupces at rates that commended themselves to Government Council drafts were sold during 6 weeks from January to March 1923 21 weeks in 1923-24 and 17 weeks in 1924 25 Secondly it was decided in October 1,125 that for the time being remattances should not be effected below the rate of 1s 6r d (a figure corresponding closely to upper gold point on the basis of a 1s Cd goll rupee) and to meet all demands for remutance that might be forthcoming at this figure without making any bin ling anno incement on the matter conditions the normal competitive element inherent in the tender system would be lacking and there would have been no point in instituting any formal offer of Council drafts. Unler pre-war conditions the then standing offer of unlimited Councils at upper gold point would have operated (vide para 11 of Annexure (i)) circumstances on the 21st October the Secretary of State addressed the following telegram to the Government of India -

A decision having been arrived at as to the rate at which Government remittances should be effected for the present. I have had under consideration.

Copies of the patches exclusived between it. Secretary of State and the Go roun at of India in
 3 will be produced if the Commission so desire.

the question whether, in accordance with practice in recent years in the busy season, it would now be expedient to reo en sales of Councils

'The decision, however, not to remit below the definite figure of Is 6,3,d for the time being and, without making any public commitment to this effect, to meet all demands for rupees at this figure makes the position exceptional, and as during the continuance of this situation the invitation for competitive tenders for Councils would lack reality, I have decided not to take any action at present Should it appear expedient at any time, the question will be reconsidered. The general question of the most suitable methods under normal conditions of making remittances is you will understand left untouched by this decision. This is a matter on which the Royal Commission on Currency will no doubt report. This refers to my telegram of the 14th October?

ANNEXURE

Sale of Bills and Telegraphic Transfers on India

(1) 1915 Regulations containing the pre war conditions

In supersession of previous notifications the Secretary of State for India in Council publishes the following particulars as to the method of selling Bills and Telegraphic Transfers on India —

Sale of Bills

- 1 The Secretary of State for India in Council is prepared to allot on Wednesday in each week Bills of Evoluting on the Government of India the Government of Madras or the Government of Bombay of an aggregate amount not exceeding that announced in a notice which will be previously exhibited at the Bank of England
- 2 Tenders for such Bills will be opened at the Bunk of England on each Wednesday at 1 o clock
- 3 Tenders must be made on forms which can be obtained on application at the Chief Cashier s Office at the Bank of England lies must be delivered, under cover, at the said office
- 4 Any tender may be for the whole amount shown in the announcement or for any portion thereof not being les than Rs 10,000. The amount of the tender or tenders submitted by or on behalf of any one person firm, or company must not in the aggregate exceed the unount shown in the announcement. Tenders which appear to the Secretary of Serte in Council to be submitted in direct or indirect infringement of this rule will be rejected.
- 5 Cach tender must state the rate of exchange at which the applicant is prepared to purchase a Bill or Bills of the amount for which he tenders or any less amount that may be allotted to him. The rate of exchange must be expressed in pence or in pence and a fraction of a penuv per rupee any friction that is used must be either one thirty second of a penny or a multiple of one thirty second of a penny or a multiple of one thirty second of a penny.
- 6 In the event of two or more tenders being made at the same rate, and the amount to be allotted being less than the amount of both or all, a pro rate allotment will ordinarily be made subject to the condition that no Bill will be granted for a less amount than Rs 5 000
- 7 As soon as practicable after the opening of the tenders the result will be made known at the Baal and the mazimum amount to be allotted on the following Wednesday will ordinarily be announced at the same time
- 8 On Wednesday afternoon persons who have tendered will on application at the Chief Cashier s Office, be informed whether any allotment has been made to them
- 9 Payment for Bills allotted on a Wednesday must be made on or before the following Tuesday
- 10 Those applicants to whom an allotment of Bills has been made will be furnished with a form to be filled up with the particulars of the Bills desired, which must be left at the Chief Cashier s Olfice before 12 o clock on the day preceding that on which the Bills were required; the Bills will be delivered next day on payment in cash not later than 2 o clock.

- 11 In addition to the tenders mentioned above for Bills to be allotted on Medias lays at 1 o clock applications may be made on any Wednesday after the result of the allotment has been announced (but not later than 3 o clock) on Saturday between 11 and 12 30 and on any other day between 11 and 3 at the Chief Cashier's Office of the Bank of England for intermediate Bills drawn on the Government of Inda, the Government of Madris or the Government of Bombay No pledge can be given that such applications will be compiled with but if intermediate Bills are granted, the following condition will be obserted viz, that if, at the preceding allotment, Bills have been allotted to the full amount previously announced intermediate Bills will only be granted at rates exceeding by at least one thirty second of a penny per rupee the minimum price at which an allotment was made. If however the minimum price has exceeded is 45% the rupee this condition will not be enforced as the Secritary of Sate in Council is prepared to sell until further notice intermediate Bills at 18 4½ the rupee.
- 12 If we intermediate Bill is granted on a Tue day payment must be made on the same day if a Bill is granted on any day other than Tuesday, payment must be made not late thru the following Tuesday.

Sale of I elegraphic Transfers ' Imite liate and ' Deferred'

- 13 Applications for Telegraphic Transfers on the Government of India, the Government of Madras and the Government of Bomi av will be received on behalf of the Secretary of State for India in Council at the Chief Cashier : Office at any time between 11 and 3, except on Saturdays when the hours are from 11 to 12 30 which are received on Wednesday before I o clock will be opened at the same time as the tenders for the weekly allotment of Bills and if transfers are then granted the fact will be amounted at the same time and in the same manner as the allotment of Transfers will be granted only in thousands of rupee and in no case for less than one lakh except that an applicant to whom a transfer his been granted at the time of the weekly allotment of Bills may be allowed an additional transfer of an amount (in thousands of rupees) less than one lakh provided that such additional transfer is paid for (at the price fixed for the time being by the Secretary of State in Council) on the same day as the transfer originally granted Applicants tendering on Wednesday before I o clock both for Bills and transfers may if they wish it insert in their ten ler for transfers a request that if that tender be not sufficiently large to secure an allotment of one lakk of rupecs at may be increased to the necessary extent by reduction of their tender for Bills
- 14 If a transfer is granted on a lucsday payment must be made on the same day if a transfer is granted on any day other than a fuesday payment must be made not later than the following lucsday
- 10 The necessart telegram to enable the amount of a transfer to be issued to the recipient in India will be despatched on the day on which payment for the transfer is made at the Bank of England Immediate transfers will be payable in India on the day following the issue of the telegram deferred transfers will be payable 16 days after the issue of the telegram.

General

- 16 The sales of Bills and Lelepraphic Transfers and the rates at which they have been made will be from time to time announced at the Bank of England and the total amount sold up to date since the 1st of April, with the sterling realised will be similarly announced on each Wednesday morning at 11 o clock.
- 17 The Secretary of State in Council, while making this announcement as regard, the practice to be ordinarily pursued reserves to himself the right of rejecting the whole or any part of any tender and of departing in any respect with upprevious notice from the foregoing terms should circumstances render it expedient

Special \otice

Persons or firms applying for Bills or Telegraphic Transfers are hereby notified that by virtue of the provisions of Acts 22 Geo III cap LLV Section 10, and 41 Geo III cap LII every allotment of such Bills or Telegraphic Transfers is made subject to the express condition that no Member of the House of Commons be

admitted to any part or share therein, or to any benefit to anise therefrom 'The Statute does not apply to contracts entered into by incorporated trading companies in their corporate capacity.

India Office 22nd February 1915

(n) 1924 Regulations (the latest form)

The Secretary of State for India in Council offers for sale on Tuesday, 30th September 1924, Bills of Evchange and Telegraphic Iransfers (Immediate and Deferred) on the Government of India to the amount of fifty lakis of rupees pyrable at Calcutta Madras Bombay and Karachi. This and any subsequent sales will until further notice be regulated by the following conditions

CONDITIONS OF SALE.

- 1 Dates of sales and the aggre, are amount to be offered on each occasion will be announced in a notice exhibited at the Bank of England
- 2 Tenders will be opened at the Banl of England on Tuesdays at 1 o'clock lay must be made on forms which can be obtained on application at the Chief Cashier's Office at the Bank of England
- 3 Any tender my be for the whole of the amount shown in the amounteement, or for any portion thereof which in the case of a Bill is not less than its 10 000 and in the case of a Triuster (immediate on Deforied) is a multiple of its 1 000 and not less than its 1 lall. The amount of the tender or tenders submitted by or on behalf of any one person finin or company must not in the aggregate exceed the amount shown in the announcement. Tenders which appear to the Secretary of State in Council to be submitted in direct or indirect infringement of this rule will be rejected
- 4 Each tender must state the rate of exchange at which the applicant is prepared to purchase the amount for which he tenders therein or any less amount that may be allotted. The rate of exchange must be expressed in pence or in pence and a fraction of a penny per supection must be either one thirty second of a pouny or a multiple thereof. No amouncement will be made of the minimum rate at which tenders will be accepted.
- 5. Tenders for I mediate Telegraphic I runsfers will rank for allotment with tenders at \$\frac{1}{d}\$ lower for Bills and Deferied Telegraphic Transfers When \$\gamma\$ po ratival mothers is made no Bill will ordinarily be grunted for a less amount than \$\text{Rs}\$ > 000 and no telegraphic transfers for \$\gamma\$ less amount than \$\text{Rs}\$ > 1 lalh Applicants tendering both for Bills and Transfers may, if they wish insert in their tender for Transfers a request that if that tender be not sufficiently large to secure an allotment of one lakh of runces at may be increased to the necessary extent by reduction of their tender for Bills
- 6 On Tuesday afternoon tenderers will on application at the Cluef Cashier's Office be informed whether any allotinent has been made to them
- Office be informed whether any allotment has been made to them
 7 Pyment for Bills and Transfers must be made before the Tuesday next after
 the day of illotment
- 8 Applicants to whom an allotment of Bills has been mide will be furnished with a form to be filled up with the particulars of the Bills desired which must be left at the Chief Cashiers office before 12 o clock on the day pieceding that on which the Bills are required the Bills will be delivered next day on payment in cash not later that 2 o clock.
- 9 When a Pelegraphic Transfer has been allotted the necessary telegram authorising payment in India on demand will be sent on the day on which pryment for the Transfer is made at the Banl of English Immediate Transfers will be payable in India on the day following the issue of the telegram, Deferred Transfers will be payable 16 days after the issue of the telegram.
- 10 Subject to further notice no intermediate Bills or Telegraphic Transfers will be offered for sale by the Secretary of State in Council
- 11 The Secretary of State in Council reserves the right of rejecting the whole or any part of any tender and of deputing in any respect without previous notice from the foregoing terms should circumstance reader it expedient

SPECIAL NOTICE

Persons or hims applying for lalls of Felegraphic Trinsfirs are hereby notified that by virtue of the provisions of Acts 22 feed III cap NLV section 10 and 41 Geo III, cap III every allotinent of such Bills or Ielegraphic Lainsfers is made subject to the express condition that no Member of the House of Commons be admitted to any part or share therein or to any benefit to arise therefrom The Statute does not apply to contracts entered into by incorporated thating companies in their corporate capacity.

INDIA OFFICE, 23rd September 1921

APPENDIX 74

Note submitted by Mr C H Kisch, CB, Financial Secretary to the India Office, entitled "Some considerations suggested by a review of the events of 1920 with reference to banking development in India"

The year 1920 was in many was exceptional in the economic history of India as it was in the case of other countries. The year saw it a attempt to establish the 2s (gold) rupee the revaluation of reserves on the new basis and the eventual abandonment of the policy of active support to the exchange

The events of the year may usefully be studied with regard to the lessons they can teach for future guidance. They bring out m: clear light certain difficulties, which at any rate for a long time to come may be expected to emerge if the Endan.

currency system is exposed to a severe test

First it is necessary to remove a source of complication arising from the fact that the currency note reserve was revalued in October 1920 on 22 basis. It is convenient for the purpose of unravelling the fact. to reconstruct the paper currency reserve on a 2s basis in exhibiting the figures for 31st December 1919 for purpose of comparison with the position on 31st October 1920 when adjustments connected with the sales of liveress were completed. If this is done the constitution of the reserve at the end of 1910 and at the end of October 1920 compares as follows—

Paper Currency Peserve (Rs 10 - ±1)
(F gu es v lable of R pe s)

		Reserve					
Date	Gross note e reulat on	Gol 1	S Iver	Rupee Securit es	Brit 4h Government Securit es		
31st December 1919	R ₄ 18 ⁹ 91	R« 6 47	Rs 43 67	Rs 57 77*	Rs 55 00		
31st October 19 0	1 59 58	23 - 5	59 41	69 07	8 35		
D fference	3 33	_9 =2	+15 /4	+1030	-40 6a		

· Balanc ng figure

The actual currency contraction in the first ten months of 1920 as exhibited by the change in the reserve was -

Notes Silver R, 23 35 crores Rs 15 74† "

Rs 39 07

† The amount corresponds to the net ret rn (Rs 14 S7 crores) of ruples and half ruples in the first n e months of 1920 as shown in Stateme t VIII of the Co it offer of Currency's Report for 1920-1

The decrease in the currency reserve gold holding of Rs 2 72 ciores is not regulated as expansion maximuch as the gold was not available for purposes of currency

The amount received in India in pryment for Reverses sold in the period (January to September) was Rs 46 93 crores and the net reduction in the gold holding represented a contricting power of Rs 4 08 crores on the approximate basis of the selling price of gold at the time. The extent to which these transactions desiderated current contraction was thus Rs 51 01 crores. This may be compared with the actual contriction effected of Rs 39 07 crores as set out formally in the following table....

Rupees received for sterling sold Net reduction of gold (at Rs 15 per £) Contraction desiderated	(<i>l</i> 109 46 93 4 08 51 0)	Contraction effected - Defected - Defected - Issue of adhee I reasury Adjustment for gold at R Difference between purpor receipts for Reverses and stetling withdrawn	bills is 15 - 16 9° 46 6 >	10 30 1 35	11 94
					51 01

The sum of Rs 11 94 (say 12) crores represents in effect an appropriation to Treasury of funds which having been received from the public in each tige for sterling or gold held in the reserve, should strictly have been appropriated to the reserve

The figure may be regarded as loughly measuring the amount by which the duecontraction was avoided in connection with the operations of 1920. Still, it has to be noted that actually 18: 30 crores of currency contraction was effected.

The effect of this deflation on the banking position in India in 1920 may now be examined. The relevant figures of bank deposits and cash balances are shown in the tables that follow —

	Pre	adercy B	unks	l-xe	l 11 ge Ba	nks	Principal Indian Binks		
Date	Dej osits	Cash bilances	Percent age	Deposits	(asl balances.	Percent age	Deposits.	Cash balances	Percent-
31st Dec 1919	75.9	23 6	υl 1	74 4	10	40 3	59	12.2	20 7
31st Dec 1920	87	20	29 9	74.5	202	33 7	71.1	10 3	22 9

All Banks

Date	Del osita	Cash balances.	Percei tage	
31st December 1919	209 3	6. 8	31.4	
31st December 1920	242 9	67 5	£9 0	

Here we may note -

(1) that the aggregate deposits of the Presidency, Exchange, and principal Indian Joint Stock Banks increased by Rs 23½ crores in the year 1920,

Joint Stock Banks increased by ns 202 crutes in the year 17-20, (2) that of these Rs 23½ crores additional deposits about half accrued to the Presidency Banks and half to the Indian Joint Stock Banks, while the deposits of the Exchange Banks were practically qualitered,

(3) that there was a small decline in the cash percentage in the case of the banks as a whole and a larger decline in the case of the Exchange Banks, whose position was presumably influenced specially by the sale of reverse council.

On the above statistics it seems impossible to resist the conclusion that such courrency deflation is was achieved through the sale of Reverses was partially-countered by the expansion of bink credit

The discount policy of the Presidency Banks is illustrated in the following

Discount Rates of the Presidency Banks in 1920

Date	Bank of Bengal	Bank of Bombay	Bank of Madras	
Rates at beginning of 1920	5	5	6	
Ianuary	6 (14th) 7 (11th) 6 (10th) 5 (1et) 6 (4th)	6 (22nd) 7 (4th) 8 (8th) 9 (22nd) 8 (13th) 7 (27th) 6 (16th) 5 (31st) 6 (4th)	7 (31st) 8 (14th) — 9 (1st) 8 (19th) 7 (10th) 6 (21ta)	

These rates might appear not to indicate any such exceptional efforts to control credit as might have been expected at a time when exchange was falling and currency contraction was being effected. But according to the report of the Controller of Currency on the year 1920-1, the 5 per cent rate which railed for a period in the summer "can hardly be considered a true index of the state of the market," and the average rate for accommodation in the bazant, as calculated from the shroffs discount rate for traders bills ranged in the year from N to 11 per cent Vorcever, the Controller of Currency observes that 'The continued demand for remittances in the early months of the year, and the large amount of reverse councils offered to the public created a fictious stringency in the market which is reflected in the bank rates.' The average rate of the Bank of Bengal for the year was about \frac{1}{2} per cent higher than the average for the two previous years, while the average increase was greater in the case of the Bank of Bombay

Mr Dennug, in his note on the sale of reverse councils in 1920, observes that "The currency was not contracted to the full extent of the amount realized by the sale of reverse councils as it was fevred that the mone, stringency which would have resulted might have serously dislocated business generally. These remarks must of course be applied to the banking position and it must be accepted that the view of the authorities at the time was that the advoidage, from the point of view of exchange of creating a greater stringency in the money market, were likely to be more than counterbalanced by the anticipated detriment to trade and business. The facts set forth above bring those who are faced with the task of devising and working the Indian currency system up against a fundamental difficulty, that is the mability in the case of Indian conditions, to secure credit contraction on the scale and with the promptness that may be required to keep the situation in control

Undoubtedly there were factors at work in 1920 which made it difficult to enforce greater contraction of currency and tended to the expansion of bank deposits. It is worth noting —

- that there was a heavy revenue deficit which for 1920-1 came out at Rs 26 crores, and a large exchange loss outside the revenue account to be financed.
- (2) that there was a large outstanding amount of Indian Treasury bills with the public, the renewal of which would have become increasingly onerous as stringency increased,
- (3) that the acquisitions of gold for sale to the public which was credited to the paper currenty reserve against the issue of notes tended in the first instance to m untain the cash balances of the Presidency Banks,

(4) that the sale of reverse drufts in so far as this did not involve corresponding currency contraction (as explained above), tended in the same direction as (3), and

contra (5) that the sales of gold which in the year amounted to £331 millions (covereigns weight) tended to displace currency in the hands of the public

and facilitated the contraction of the note issue

While some of the above factors no doubt had an inflationary tendency, it is difficult to assert with any confidence that the station would have been susceptible of more ignorus control had they been absent because the limit of dellation was set by the anticipated reaction of an increased stringency on business. This factor is similar type arises and the facts will not be altered by any change in the agency charged with the task of applying the screw. Indeed if this duty were entrusted to a bank whose main interests are commercial the effort to hold the fort may be less sustained than when undivided responsibility by with the Covernment. The argument points to the desirability of creating, if possible a genuine Central Bank whose functions are closely circumseribed.

Certain suggestions emerge from this review of the events of 1920 which may be worth recording by reason of their bearing on future policy. —

- (1) If at any time Government remittances are suspended on account of exchange weakness and cash balances at the bank remain high tending towards expansion the desirability of drawing on the cash balances for the contraction of the note issue should be lept prominently in mind.
- (2) Reverse drafts should not ordinarily be not from Home Trensur, balances as the volume of currency in India is not thereby reduced. The sale of drafts should at once be brought to the debit of the sterling reserves involving corresponding contraction in India.
- (3) The extent of possible contraction at any given period of strain will be determined not so much by the strength of the sterling reserves as by the capacity of trude and business to endure the stress
- (4) A central bank in India, if charged with the dut of credit and currency control will be worling owing to the undeveloped conditions of credit, under serious disadvantages as compared with central brinks in countries with a highly developed credit organism. It is desirable to fortify the bank in every possible way and to protect it so far as may be from the risks involved in responsibilities to the due discharge of which conditions in India are at present imperfectly suited.
- (5) It is desirable that central banking in India should advance on cautious lines which take account of the special fretors prevailing in India and that the close association of Government with the central bank should be definitely recognised as an important element in the maintenance of a sound currency and exchange system

APPENDIX 75

Supplementary Notes and Statements submitted by Mr C H Kisch, CB, Financial Secretary, India Office

- (A) Note on Suggested draft of lines on which a Gold Standard may be embodied in statutory form for India as explained in Mr. Lisch's systence
- (B) Note on Suggested sales of S Iver Bullion from the Currency Reserve" furnished by Mr C H Kisch in amplification of the tibles in Appendix III of his Memorandium No 4 (appendix 72)
- (C) Statement showing the monthly balances and interest receipts of the Home Freasury for the years 1912-3 and 1913 4 and 1921 2 onwards
- (D) Statement showing the estimated and actual Home charges and the method of financing them during the four years 1921 2 to 1924-.

The actual application of these suggest is will vary according as the responsibilities for currency control rest with Government or are transferred to a central bank.

(A.)

Note on "Suggested draft of lines on which a Gold Standard may be embodied in statutory form for India," as explained in Mr Kisch's evidence,

- 1 The Bank shall receive from any person making a demand at the head office in Calcutta or Bombay, or at any other office of the Bank which may be notified by the Bank for the purpose in the Grazette of India gold bullion or gold coin which is not legal tender in India in exchange for Government rupoes or bank notes at the rate of x grains troy of fine gold for Re 1 subject to conditions to be notified by the Bank in the Grazette of India with the orievous approval of the Governor General in Council
- 2 The Bank shall sell to any person in India who makes a demand in that behalf at the head office in Calcutta or Boinbay or at any other office of the Bank which may be notified by the Bank for the purpose in the Gazette of India, and pays the purchase price in any legal tender gold at the rate of z grains troy of fine gold for Re. I, or at the option of the Bank an equivalent amount of gold exchange payable in any country outside India approved by the Governor General in Council and munitaining a free gold market subject to the following conditions, viv. —

(a) No single demand for gold or gold exchange shall represent a less value in gold than approximately 400 ozs of gold

(b) The 'equivalent amount of gold exchange' referred to shall be a sum in foreign currency calculated by the Bank, subject to the approval of the Governor General in Council, to represent the stundard price of z grains of fine gold in the country outside India concerned, less a percentage representing the normal charges of a remittance of specie from India to the country concerned. For this purpose the Bank shall notify in the Gazette of India, with the previous approval of the Governor-General in Council, the country or countries upon which gold exchange shall be issued and the rates of gold exchange per rupee

(B)

Note on "Suggested Sales of Silver Bullion from the Currency Reserve," furnished by Mr C X Kesol: an amphilication of the tables in Appendix III of his Memorandum No 4 (Appendix T2)

Two statements are attached, showing the result of an hypothetic sale of Rs 15 crores of silver rupees on certain assumptions regarding the repurchase later of the coin equivalent of the amount sold

Both statements contemplate that the metallic proportion of the note reserve will be maintained at 40 per cent and take as their basis a gross circulation of Rs 190 cross—1e approximately the issue outstanding at the end of September 1925

Lach statement assumes that a half year's interest is earned on the sale proceeds of silver in the year of sale and lost in the year of reputchase. Gold added to the reserve to maintain the metallic ratio at 40 per cent is assumed to be provided from sale of sterling securities and this involves a loss of interest, a loss of half a year's interest being taken in the year in which the gold accretion takes place. Interest is reckoned throughout as 3 per cent compound. Both statements assume that silver is sold at 30d per ounce standard and repurchased at 34d per ounce standard and repurchased at 34d per ounce standard. A larger difference would of course exhibit the project in a more adverse light.

It will be observed that -

(1) Statement A, which assumes the maintenance of the rupes holding at about 20 per cent of the gross circulation, shows a net loss of £200 000 at the end of the seventh year.

(2) Statement B, which assumes the maintenance of the rupee holding at about 17½ per cent of the gross circulation, shows a net loss of £313,000 at the end of the eighth year. Hypothetical result of selling Rs 15 crores silver until repurchase of same amount is necessitated in order to keep silver ieserve up to (A) Rs 40 crores and (B) Rs 33 crores (normal absorption being taken at Rs 7 crores per annum), and at the same time maintaining the metallic ratio at 40 per cent in each case ?

STATEMENT A

Period.	Stock at be guming of year	Absorp- tion	standa	30d. per d ounce	per et	es at 34d andard nce Cost.		An ount realised from sales (+) or cost of pur chases ().	Half year s interest on same	Amount of additional gold re quired to maintain a 40% metallic rat o	interest during the year on sterling	Interest on net gain or loss at end of previous year	Pro gress ve gain (±) or less (-)
lst year	Rs crores 90	Rs crores 7	Rs crores 5	£ millions 2 323	Rs crores	£ millions —	Rs crores 78	£ millions +2 323	£ millions + 035	Rs crores	£ millions	£ millions.	£ millions +2 358
2nd year	78	7	5	2 323	-	-	66	+2 323	+ 035	٠ –	۱ _	+ 071	+4 787
3rd year	66	7	5	2 323	-	-	54	+2 323	+ 035	1	-	+ 144	+7 289
4th year	54	7	-	-	-	-	47	-	-	_		+ 219	+7 508
5th year	47	7	-	-	-	<u> </u>	40	-	_	6	- 067	+ 225	+7 666
6th year	40	7		-	7	3 685	40	-3 68a	- 055	_	- 135	+ 230	+4 021
7th year	40	8	-	-	8	4 211	40	-4 211	- 063	-	- 135	(see for	_0 267 act 0 067 tnote †) s 200
						STA	TEME	NT B		1			
1st year	90	7	5	2 323	-	-	78	+2 323	+ 035	-	-	_	+2 358
2nd year	78	7	5	2 323	-	-	66	+2 323	+ 035	-	-	+ 071	+4 787
3rd year	66	7	5	2 323	-	<u> </u>	54	+2 323	+ 035	! -	-	+ 144	+7 289
4th year	54	7	-	-	-	-	47	-	\ -	-	-	+ 219	+7 508
5th year	47	7	-	-	-	-	40	-	-	6	- 067	+ 225	+7 666
6th year	40	7	-	-	-	-	33	-		7	- 214	+ 230	+7 682
7th year		7	-	-	7	3 685	33	-3 685	- 055	-	- 293	+ 230	+3 879
8th year	33	8	_	_	8	4 211	33	-4 211	- 063	-	- 293	Dedu (see for	-0 572 ct 0 259 stnote†) oss - 313

One rupee contains 55/149 standard ounces of silver —

7th and 8th years when Hs 5 crores and as 5 crores, respectively. It was bound be required. The loss of interest which this would involve, calculated as in the table above, amounts to £67000 in the 7th year in Statement A, and £35,000 in the 7th year and £203 000 in the 8th year in Statement B. The sum of £67000 should therefore be deducted from the loss in Statement A, leaving a net loss of £200 000 and the sum of £250,000 from the loss in

⁽i) Value at 30d per standard ounce = £0 04645 (ii) Value at 34? per standard ounce = £0 05264 † If there were no sales or parchases of silver and absorption proceeded at the same rate as is shown in the † If there were no sales or parchases of surer has accompany procedure at the same rate as is shown in the statement above the crebings of stering scenarios for gold in order to maintain a 40 per cent metallic ratio would have taken place in Statement A in the 7th year to the extent of Rs 6 crores of gold, and in Statement B in the 7th and 8th years when Rs 5 crores and Rs 8 crores, respectively, of gold would be required.

The loss of interest

(C.)

Statement showing the Monthly Balances and Interest Receipts for the Home Treasury for the years 1912-3 and 1913-4 and 1921-2 onwards.

		Total ·	Interest d	uring 1			Total	Interest	
Date		balance	the yes		Date		balance	the ye	ar .
				·	1933		£		-
1912		£		- 1	30th April		7,110,908		
30th April	-	16 351,547		i	31st Way		7,036,570		
31st May	-	18 962,965		- 1	30th June		11,904,792		
30th June	•	16,199,961		- 1	31st July	-	14,358,835		
31st July	-	13,146,764 13 373,198		1	31st Aug	-	20,827,118		
31st Aug 30th Sept	:	13,699,223			30th Sept	-	22,897,145		
31st Oct	-	9,117 207			31st Oct	-	26,419,121		
30th Nov		7,574 043			30th Nov.	-	26,061,603		
31st Dec	_	9,698,384			dlst Dec	-	20 628,356		
1913					1924		12,052 585		
31st Jan.	-	7,993,402			Slet Jan	-	11,366 646		
28th Feb	-	9 173,348		a >= 0 1 = 1	29th Feb 31sf Mar	-	10,671,310	1023_4	£387,385
31st Mar	-	8,783,970	1912-3	£3/2,1/1	2181 2191.	•	10,011,010	1020-1	2001,000
					1				
30th April		8,665,454			30th April	-	12,507,225		
31st May	-	10,145,978			31st May	•	10,901,228		
30th June	-	10,529,034			30th June	•	11,420,770		
31st July	-	7,520,316			31st July	•	11,079,952 10,372,111		
31st Aug	-	7,131,708			Slst Aug	:	15,390,009		
30th Sept	-	6,480,196			30th Sept 31st Oct	:	21,838,130		
31st Oct	-	3,998,521			30th Nov		19,415,101		
80th Nov	-	4,493,475			31st Dec	-	22,425,456		
31st Dec	-	4,880,120			1925		, , , , , , , , , , , , , , , , , , , ,		
1914		4,833,388			31st Jan		15,646,959		
31st Jan 28th Feb	:	7,123,843			28th Feb	•	14,834,163		
31st Mar		8,132,770	1913-1	£205,690	31st Mar	-	13,315,599	1924-5	£461,135
OTEL MICH		.,,			I				
					30th April		10,352 081		
1921		6,582,207			31st May		8,795,957		
30th April	•	9,524,452			30th June	-	12,081 240		
31st May	:	10,046,163			31st July	-	9,025 603		
30th June 31st July	:	7,872,844			31st Aug	-	10,867,404		
31st Aug	-	6,170,590			30th Sept	-	17,911,954		
30th Sept	-	5,285,756			31st Oct. 30th Nov	-	16,089,531 15,653,787		
31st Oct	-	2,012,933			31st Dec	:			
30th Nov	-	3,600,978			1926		20,101,100		
31st Dec	•	3,748,976			31st Jan		16,230,001		
1922		2,406,841			28th Feb		17,281,489		
31st Jau 28th Feb.	•	2,600,141			31st Mar	-	16,195,813		(forecast)
28th Feb.	:	9,052,175	1921-2	£228,341	1			£46	1,962
Orah brar		-,-			I				
		7,533,757			1				
30th April 31st May	-	6,247,463			1				
30th June		5,841,030			I				
31st July		9,473 984			1				
31st Aug		. 10,306,807			1				
30th Sept					1				
31st Oct		7,693,386			1				
30th Nov		11,061,648			1				
31st Dec 1923		. 12,904,644			1				
Slst Jan.		. 13,445 508	3		1				
28th Feb		19,593,487			. 1				
31st Mar		9,895,338	1922-3	£153,152	1				
22.71									

ROYAL COMMISSION ON INDIAN CURRENCY AND FINANCE

490	ROYAL COMMISSION ON INDIAN CORRECCI AND FINANCE
	(D)
Statement	showing the Estimated and Actual Home Charges and the method of finance them during the four years 1921 22 to 1924 25
	1001.00

tnem	auring t		ars 1921 22 to 1924 25		
	Hone (192: Charges	1 22	FINANCED	A4 FOLLOWS
	B lg-t	Actuals		B lget	Actuals
	L	£		£	£
Actexpeniture Cap al expend un not clarged to Levenne	2" 581 300	• "48 940	Delt (ncluding debt of Ralway Cos)—Net rece pts Transfers ti rough Paper Currency	5 009 000	14 905 11
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APPENDIX 76

Statement^o of evidence submitted by Sir James Brunyate, KCSI, CIE

I -- Preliminary

have had the advantage of seeing the memoranda which have been prepared in Finance Departments of the Government of India and the India Office and numerated as I understand to the Royal Commission

In the present re examination of the Indian Currency problem the Royal mission are confronted with a number of new conditions the rehabilitation of ing, the dc facto stabilisation of the rupee at 1s 6d, the balancing of the an Budget the reattranement of normality in silver prices, and so forth nout attempting to distinguish between the relative importance of all the new or specially significant factors I may refer to the following as having doubtless specially influenced the personal opinions expressed below —

- (i) The change of attitude among monetary authorities in regard to the self-sufficingness of a gold standard and to the methods of operating it
- (11) The remarkable extent to which the note using hibit has developed in India in recent years
- (iii) The experience gained of a unified Imperial Bank for India and the resulting extension of branch business
- 3 The proposals of the Indian I'm mee Department embrace two mun projects (1) the extinishment of a gold cutrence and (2) the investment of the Imperial Brah with certain important functions of a Central Bank—Speahing generally, I think the first proposal open to decisive objection—I see advantages in the second and not least the fact that it tends to withdraw mometry problems from the political arena Bit it is a serious drawback that the only institution available for the role of Central Bank should be a Bank so definitely commercial in character.

II -Choice of Standard

- 4 In the last few years India has had an interesting and not unsuccessful doing again upon a gold bear. There is no doubt honever that she should settle doing again upon a gold bear. But he should realise what a gold standard now means a managed currency with the management centred in New York or at the best concerted between the Federal Reserve Board there and the Bank of Lingland in London eight action of the last of the
- o I wrote above of a 'gold basis' postponing for the moment the question of choice as between (a) a 'gold standard (b) a gold exchange standard and (c) a sterling exchange standard. I hope I may be excused for dwelling on this question
- 6 In the Government of India memoranda the possession of a gold currency is taken as the distinguishing feature of a gold standard. A standard based on gold but not accompanied by effective arrungements for the circulation of gold is treated as no "exchange standard. The idea that a gold system is not complete unless gold is the principal circulating currency is now, I think rather old rishoned As regards India in particular we all held that view some 25 years ago and apparently a considerable body of Indian opinion holds it now. The hopef then, I

TI settlement was prepared prior to the receipt of the Royal Commissions questionnaire
 TC Inda and the Gold Standard by Sir Hung Howard K.C.TE. C.S.I. page 4" para. 25 (1), also page 19 at d

think, was that the gold would return from circulation in times of depressed trade and so become a source on which to rely for the provision of sterling remittance. This expectation was from the first, I suspect, vain, and looking to the scheme actually before me I do not see any real probability that with 200 crores of notes and 150 crores of rupees in circulation, and perhaps 150 to 200 crores of bank deposits a redundancy of purchasing power will express itself, to any helpful extent, in the return of the relatively marginal supply of circulating gold.

The pre war policy, which passed, I believe, about 100 crores worth of sovereigns into circulation prior to the outbreak of war, wis not it is true assisted by the creation of an artificial vacuum through the forced withdrawl of rupces. But it synchronised with a constantly increasing demand for currency. It did have the effect of creating a limited circulation of gold, but there was never, I think, any

indication of a helpful reflux of gold

I would submit that a gold currency though it may reasonably be considered on its own ments (see Section III below) should not be looked on as an integral feature of a gold standard

- 7 Indeed with the use of gold coin abandoned in the United Kingdom and misginificant, I believe, in the United States, it is rather a question whether there still remains any essential distinction between i "gold standard" and a "gold exclining standard". I suppose it hes in the use of gold as the ultimate medium of international adjustments as distinguished from a mere undertaking to provide unlimited external credits, a procedure which suggests, and may, I think, come in some measure to entail, a relationship of monetary subordination to the centre on which the foreign credits are given. It is noteworthy, however, that the arrangements mide by His Majesty's Government and the Bank of England for supporting the sterling exchange middle the provision of credits in New York, and, generally the policy of mulatining exchange by external credits in New York and, generally the policy of mulatining exchange by external credits is now, I should say, a fully accepted feature of post war practice.
- S As regards this point, which is discussed in para 21 (C) below, my conclusion as regards neverse remittince is in favour of relunce primarily upon issues of gold at par. As regards inward remittance an immense part must, in India's special circumstances, be effected by the sile of rupee credits, but gold when imported and tendered to Government should be freely accepted at par On this basis India would I think, have a gold structurd" as distinguished from a 'gold' acceptance tracked." In the following the contractions of the contraction
Some exchange standard" in the fullest and most practical sense of that term as now understood

- O The question will still ause, however, for certain purposes, of "gold" revise "stering I feel no doubt that the stabilised rupee of the immediate future should be a rupee expressed in sterling. It would be idle too to assume that a mere prescription if demands for outward rematance should be graited in alternative forms of gold currency (dollars or sterling) at the option of the applicant would in itself effect andthing. But there is I think, a point of substance involved, namely, the question whether the Reserves should be specially constituted with a view to facilitating a turnover from a sterling to a dollar basis in the event of the status of sterling becoming at any time insecure For example (a) should a larger proportion of gold be held in the Reserves than would be necessary if the status of sterling were fully assured? (b) Should a proportion of the securities held be dollar securities? (c) Should the sterling securities held be evaluated.
- 10 I will deal briefly with these points. I am a little inclined to think it an excess of causion to provide deliberately for a failure of sterling. But on general grounds there is a good case for a considerable gold holding and for holding sterling securities only in the most realisable form. The idea of holding dollar securities as well is at first sight rather faintstic, it it India is hilely to be a large and unleas holder of exchange reserves, and wind from her point of view it may be advantageous to spread her risls it might be also of advantage to London to spread a possible strain in the event of evchange weakness in India synchronising with exchange verskness there. The arringment would mean in effect that India would have dellar credits in New York instead of relying on London to provide them for her, if the occasion for seeking them should ever arrise.

III -Question of a Gold Currency

- 11 A gold currency can only maintun itself in India if the persistent demand for gold as a commodity or as a store of value is kept constantly satisfied. The dimensions of that demand are very large and very fluctuating I cannot help thinking that this fact alone introduces an element of unevenness and precariousness sufficiently serious to make gold a rather unsatisfactory currency medium. But however that may be I think the great advance which India has recently made in the use of notes should predule the idea of so retrograde a step as the foreible introduction of gold. The point is fully brought out in the India Office memorandar
- 12 I subscribe to the view that India should not be hampered in obtaining the gold she requires She already does this in ample measure through trade channels, and should continue to do so I would also as the India Office memorand suggest accept gold freely when imported allow tenderers the faculity of getting gold converted into sovereigns and recognise the sovereign as legal tender so that holders of gold could hold it to the maximum advantage. But I would cease to issue texcept for export. This would represent a sharp departure from prst practice, but it would be facilitated by the long disappearance of gold from actual circulation in India. I think that the Government of India memorand are right in seeking for some clear decision as to the future place of gold in the Indian momenty system. We should work definitely towards a gold currency, or definitely adopt as normal practice the use of gold evictuariety for supporting exchange
- 13 The practical objections to the Indian Pinance Department's scheme for introducing a gold currency are fully brought out in the India Office memoranda the surreality of the project which will in effect instal a double currency system with the inconvenience incidental thereto its cost namely a capital oitlay sufficient to build New Delhi several times over and an even more than proportionate revenue loss its exceedingly diastic character for the policy which informs it is surely that of 'hicking one s way through a rather than of the tentatives' statesmuship essential to such in enterprise and its completely speculative christer in so far as it ignores the really grave risk of destroying the note using habit. It is perhaps, worth noting with reference to such criticisms as the list that it is not necessary to the validity of an objection that the risk which it apprehends should be a demonstrable probability. A mere chance—if substrairal—that the new policy will lead to the representation the smaller notes by gold would make the whole scheme is gamble.

IV -Choice of Rate

- 14 I think the rupee should be stabilised at 1s 6d the rate already established It has been proved by experience to be consistent in good years with the retention of a very large behave of trade in India's favour. [It may be noted here that a helpful feature in India's case is the size and elasticity of her demand for the precio is metals which give her an unusual power of accommodation to all ordinary variations in the trade balance as reckoned on private merchandise without seeking the aid of the special exchange machiner.] The price data in the two sets of official memorandy do not appear to contri indicite the rate suggested. I speak guarde il; on this point however because I am not very confident of the value or complete relevance of the data themselves. Vor ag in does there seem to have been such a degree of inflation measured in terms of circulating currency and bank deposits as should make the present rate unsuitable. The available material on this point will perhaps be of interest though precurious as regards the calculation of the rupee circulation and incomplete in taking the Imperial Bank the Exchange Banks and the Joint Stock Banks as the sole representaives of the country's credit machinery.
- 15 Between 1914 and 1925 the circulation of rupees and notes has increase I from roundly 240 to 100 crores The deposits† of the banks above-mentioned rose from

† But with a deduct on of one therd from the private lepos is of the Pres lency Banks (now Imperial Bank) to allow as well as may be for the fact that they hold part of the balances of other banks. The

Covernment depos to are of course not taken

[&]quot;If a gold currency had to be introduced t is a quest on whetler the could not be done will less risk and upheaval and also less cost, by a count noung rupee co on ago and set up notes and gold unif a formal wastage and the grown ag aggregate demand for currency led reduced the estant rupees to a quantity only sufficing for everyday retail requirements. Such a method would admit of the steps taken be ny retirected it it is exper ment bove debone.

about 80 crores at the end of 1913 to just over 160 crores at the end of 1923, the latest year for which I have particulars The slender gold currency of the pre war period has disappeared from circulation. Hesse figures run fairly purillel to those of the United Kingdom, where £9 of notes per head are now said to be in use as compared with £2 of notes and gold per head before the war, and the deposits of the English Joint Stock Banks have risen from just over £800 millions to about £1,800 millions. Such statistics, of course, will never settle whether exchange should be fixed at this precise figure or that. But they may fairly be taken as suggesting that the present position is probably not fundamentally unsound. They help to transfer the burden of proof

16 I have seen it objected that a 1s 6d rate has not yet been tested by an unfivourable monsoon. This difficulty would have been no less whatever de facto established rate had emerged from the currance convulsions of the post war period. In this respect, the responsibility lying upon the Roy d Commussion in recommending any named rate is for less onerous than that which the Iowler Committee faced in 1899. If the objection really means that after experience of a series of busy trade years followed by a deficient moneon and slack tride a compromise rate, as it were, could be selected as fairly well daplied to good and had years alike it is, I think, wrongly conceived. Any rate established over a period of normal years must tend to break down in had years unless sustrined by the exchange michinery.

V .- Reverse Remittance and the support of Exchange

(a) General Considerations

- 17 The India Office memonanda bring out the fact that the accepted pre war policy of supporting exchange 'with all available resources' was fundamentally qualified. The sterling offered was not freely issued it was doled out in "stated amounts weekly." Thus in 1920 a disparity was set up between the rate for reverses and the effective market rate of exchange. This limitation of offers of sterling was quite deliberate, and such a disparity might well arise even in a less abnormal crisis.
- 18 Under a fully operture gold standard no such limitation is recognised. In principle gold is freely issued for export. But (1) the issuing country relies on the discount rate to correct an excessive outflow. (2) It is also the tendency of modern practice to employ the discount policy to regulate credit and prices antecedently and thus limit the function of gold to imarginal purposes. (3) The financial public accepts the necessive defiation. (4) They understand too that the maintenance of exchange us not an absolute obligation, or letter perspays, thus, in the still unsettled conditions temporary departures from the strict docume of a gold strindard may from time to time be found necessary (of the "embago" on foreign loans)
- 19 Spealing broadly, the first safeguard has as jet but limited scope for application in India in a period of exchange werkness. The policy of \$2\$ is not, I suppose, applicable at all, though one may refer, perhaps, in this connection to the valuable practice now introduced of issuing' seasonal currency' on the security of trade bulls. As regards (3) the Indian money markets are, I thinh, disposed to be somewhat specially intolerant of deflation, and it is this intolerance, I thinh, inther than any shortings of gold and sterling reserves, which may set almut to the possibility of supporting exchange through a class of special severit. As regards (4), again, I thinh, there is a disposition to expect mose from the Government in India than the controlling authority can, as vet wisely undertake as an absolute obligation, on the same plane, let us say, as a Government's obligations to its debt-holders. This consideration by itself, I thinh, suggests a strong objection to the retention by Government of undivided responsibility for exchange
- O I deduce that Indian conditions are somewhat specially adverse to the efficiency and smooth working of a gold standard system, and that the great desideratum is to get on to lines of development which will eventually better those conditions. Meanwhile, failing more delicate methods of internal adjustment, though exchange may perhaps be sustained by sheer weight of reserves, the machine will be apt to work roughly and to cause the maximum of external disturbance.

(b) Suggestions

- 21 I pass on to the particular suggestions which I would submit for the consideration of the Royal Commission -
- (A) Any gold or gold exchange system must be based on the two principles of-
 - (a) unlimited acceptance of imported gold at par (or unlimited issues of rupee credits at upper gold point).
 - (b) unlimited issues of gold for export at par (or unlimited issues of sterling credits at lower gold point)

I would adopt these principles in the Indian system, discarding the "dole" system hitherto in vogue for reverse remittance

By "unlimited issues of gold, 'I mean unlimited in principle, but not exempt from such restraint as a Central Bank with high prestige may informally impose in the general interest. I would also recognise the "ear marking" of Indian gold for London when it is thought desirable and is found possible to arrange it

- (B) I would hand over the note issue and exchange machinery, with their reserves. to the Imperial Bank for administration, subject to suitable arrangements for the association with the Imperial Bank in that duty of (1) the Government of India in India, and (2) the Secretary of State in Council in London (see, however, para 24 below)
- (C) I would rely for the support of exchange on gold issues for export rather than on the grant of sterling credits
- This, I presume, must be intended ultimately under Sir B Blackett's scheme, and though I cannot think the change will be very welcome to Indian trade there is I think, much to be said for it

It is the actual practice under other gold systems which India is anxious to emulate It offers some impediment, I take it, to the abuse and exploitation of

remittance facilities, and it supplies a real function for gold held in India

The privilege of unlimited credits in external money centres is a very generous facility, and I am not sure that it has been both conceded in theory and unreservedly applied and tried out in practice elsewhere I have suggested already (para 7 above) that it may give rise to a relationship akin to subordination to the money centre on which the credits are given I suggest, too, for consideration that in so far as Government and the Central Bank undertake the supply of unlimited credits they tend to hinder ordinary banking development just as the supply of gold from huge central reserves necessarily renders superfluous any banking effort to draw gold from circulation

It would seem also that a correctly operating system for remedying exchange weakness should not only be deflationary in its local effect but inflationary in its This requirement is not met by the issue of credits. It would be met by the export of gold except in so far as it may be the policy of the receiving countries to regulate the expansion of credit independently of the state of their gold

(D) A policy of free issue of gold for export, or of unlimited sterling credits, demands considerable strength in gold and the highest degree of liquidity in other reserves (see paras 9 and 10 above) and the reserves should be constituted Such a policy is not, I think consistent with a simultaneous effort.

umplying great dissipation of resources to establish a gold currency

(E) In some way-and I can see no better way than a pronouncement of this Commission, for the matter cannot be codified—the need during periods of exchange crisis for a considered policy of deflation requires to be emphasised The normal conventions on the subject should be, as it seems to me, (i) that all gold export (or special sterling credit) transactions should be passed through the Paper Currency Reserve, (11) that accretions to the Imperial Bank's balances (via "public deposits") through the discontinuance of the Secretary of State's drawings, should not be made the basis of an enlargement of credit, (iii) that credit generally should be restricted, and the Bank rate employed for this purpose as far as may be "Policy' would lie in determining whether and how far these conventions should be departed from with reference to the circumstances of a particular occasion. This it may be said, is what the Bank would do anyhow. But the matter is of great moment and calls for some formality

(b) Such a deflationary policy might well be fortified at any rate in a very prolonged period of depression by the sale in India as bullion of the redundant rupees which return in periods of slick trade. His would tend to currial purchasing power in strata not readily reached by banking influences

VI -Inward Remittance and the Secretary of State's Drawings

22 As I do not advocate the transfer of silver purchases for rupes comage to-India and the Secretary of States ordinary drawings can obviously be most conveniently met by bills of some kind I contemplate that inward remittance would not be effected by gold movements except so far as mucht be necessary from time to time to bring the Indian gold holding up to the accepted standard strength. As regards the bulk of inward remittance therefore the choice of methol will under my proposals. he between (a) sale of falls by open tender in London (b) purchase of sterling by open tender in India or (c) purchase of sterling in India by the Imperial Bank on the lines recently followed

Whatever method is adopted there would naturally be under a correctly operating system (a) a standing and unlimited undertaking to accept gold in India at par and (b) at times when it was desired that gold should not be imported and tendered to Government an unlimited undertaking to give Indian currency at upper gold point

in exchange for sterling in London

23 The present method of remitting (c) above has worked well in the special circumstances in which it was introduced and in the circumstances also abnormal of the present time and has I think, proved itself a valuable innovation. I see nothing unmistakeably wrong in principle though something to question in practice, in the view that the Secretary of State as a remitter on his own account should be free to operate on either side and as and when he judges best. No one in England. for example expects the Bank of England to inform the world from day to day as to the progress it is making with preparations for remitting American debt. But it would be wrong and mappropriate to employ the secret method of purchasing sterling as the procedure by which to implement a general undertaking to supply unlimited rupce currency at upper gold point. The parallel to that would be the concealment of the inward movements of gold in this country. These two objectives of remittance ie (i) the provision of the Secretary of State's requirements and (ii) the maintenance of exchange at or within upper gold point so largely overlap that there will be very little real scope I think, for the employment of present methods, when more normal currency conditions have been re established as the outcome of the Royal Commission s present labours Finally, there is great practical force in the view that the Secretary of State is too dominating a factor in the restricted monetary world of India to claim the full liberties and privacy of a private remitter I would not completely disallow the present system but I think its chief usefulness will be at times when a period of exchange weakness is giving place to one of returning strength. At such transitional points it offices I think the best and a quite legitimate means of feeling the pulse of the market When so used I think it should be accompanied by, say the weekly disclosure of the amounts and rates negotiate !

VII.--Transfer of Central Banking Functions to the Imperial Bank

24 The expression of my views in para 21 (B) is subject to proper consideration of the objection that the Imperial Bank is disqualified from exercising the functions of a Central Bank by its commercial character

This objection (1) may be final and decisive, or (2) it can possibly be met by

appropriate safeguards or restrictions

appropriate surguarties or resultance.

As to (1) I have not the expert knowledge to estimate the weight to be attached to this objection. Similarly as regards (2) I cannot in any technical way, suggest safeguards But I think that on this and other grounds there are as I have already suggested good reasons for associating the Governmental authorities both here and in India with the Bank in the determination of high monetary policy The Government cannot divest themselves of ultimate responsibility for India's monetary well being or, specifically for great sums of public money made over to the courtol of a commercial The choice lies I think between the creation of a Central Bank ad hoc which might be premature now though probably an ultimate development, and a which imput be premarked and the only available alternative—the only institution too which can systematically address itself to the extension of sound brulling throughout India

Wy inclination is to postpone the true Central Bank for the present and try with a safegurids which expert advice may suggest, v into is possible on the lines of the Indian proposals

VIII.-Conclusion

2. In these observations which I respectfully submit for the Royal Commission a consideration I have felt and still feel perplexity on certain points (the gold export question and the banking question). But I think there can be little doubt as to the mun aims to be associated with the immediate task of putting India's currency system on a gold basis. The latter object can be efficiently achieved by a gold standard (with or without a gold currency) or as Sir Basil Blackett has shown in his Minute with a gold exchange standard. Bit (1) a sound standard to day postulates banking control and a whele extended and closely inter related banking system and we have to try to foster that and (2) there is as it seems to me a tendency for the monetary world to group itself with the United States of America and the United Lingdom acting in concert as the dominant group while later convalescents from exchange troubles full into a status of something approaching monetary tutelting. It is pethaps some instinctive perception of this which lies behind the demand for a gold currency. I think that any now currency scheme for India should consciously and at securing to her the maximum degree of monetary indepen lence.

APPENDIX 77

Supplementary Note by Sir James Brunyate, in reply to questions of Sir Purshotamdas Thakurdas on the subject of Government Remittances

I -QUESTIONS BY SIR PUPSHOTANDAS THAKEPDAS

- 1 A witness I efore the Royal Commission has said. There are strong objections to attempting to the up the Secretary of State by an advance monthly programme or anything of the kind. Do you agree with this?
- 2 It has also been said that the action to be taken in regard to remittance of Government balances from India to England cannot be forecast with any accuracy for any length of time ahead your agreement with this?
- 3 What inconvenience if any would be caused to the Secretary of State ii his requirements for steiling in Lon lon were supplied in accordance with his obligations thus obviating the necessity for keeping such large balances in England as are referred to in the Report of the Controller of the Currency for the year 1924 of viziminim in balance £10 403 565 maximum £2 718 629 average £15 120 145 the annual requirements of the Secretary of State being in the neighbourhood of £00 000 000?

II -NOTE BY SIE JAMES BRUNYATE

1 The Chairman asked me to submit a note on these questions and remarked (I write from memory) that they opened up far reaching issues. That is indeed the case though I have endeavoured to I eep away from the remoter aspects of the remittance problem as much as possible.

remittance problem as much as possible

I have assumed for the purposes of the note that a true Central Bank is
established holding the Treasury balances in India and London transacting the
remittance bus ness of Government and managing the paper currency reserve. I
assume also that gold is or ised to 1 e sent to India (by the discontinuance of co incils
and isterling p trobases) for tender to Government to that extent only which may be

required under some independently accepted policy on the question of the gold

holding (c f. para 22 of my written statement)

I propose to refer throughout to the "Indian Administration" (i.e. Secretary of State in Council plus Government of India) rather than to the Secretary of State in Council except where it is necessary to particularise the latter. The remutance question is in essence one which any unitary Government would have to face whose financial commitments and monetary system both required the provision of funds on a large scale in an external money centre.

- 2 Question 1 I am not told the context in which the stitement cited in this question was mide. I ssume that it had reference to the Indian Finance Department's enumeration of 'principles' by which "the demand of Government on the Brak would be regulated and especially to the principle rather cavalierly stated that the "India Office would have to give the Brak." a definite demand for each month made some time before the beginning of the month, the amount of which the India Office would not be able to alter without the consent of the Brak.
- I gree with the witness if he meant, as I take him to have meant that the idea of the Indian Administration pledging itself to its brakers to be bound finally by a forecast of its requirements is undimisable. I suggest that the true principle is that the relations between the Administration and the Central Bank in this matter will be those of depositor and banker. These relations include in principle the right of the depositor (a) to get his money when he wants it and (b) to use it to his lost add intage while he does not want it the term. But advantage in this case meaning of course the best advantage of India. On alternative I would say that for this purpose the relations between the Indian Administration and the Central Bank should (mutatismutands) be those subsisting between His Majesty's Government and the Bank of England.
- 3 Prising from principles to prietie, there is no doubt, of course that the Administration, realising that it is an uncomfortably powerful customer and being as closely interested in the proper functioning of the Bank as the Bank itself, will give the Bank all the assistance it can and show it at all times the highest consideration in dealing with difficulties inherent in the management of its account. The Bank on its side will, I think, realise that to hold the Administration's funds where they are wanted and to have them vailable when they are wanted as a primary obligation and will not be fadgeting itself to ematters so fine that it must fall back on the plea that a forecast of some weeks back is not being fulfilled. Assuming, as we ought to do, a correct attitude on both sides I think it is a little idle to try to "regulate" matters of routine which the parties will settle for themselves when they get to work.
- 4 Question 2 The "remittance of Government balances from India to l'ugland' is the counterpart and consequence of the trade demand for remittance from I agland to India. The Indian Administration does not say. "We are short of funds at home or we have excess funds piling up in India, let us sell councils (or buy stering), and remit the surplus." What it says in effect is "There is a leen trade demand for remittance to India just now, we must nect it, or trade will be humpered. (Or attendantively for it depends on the standpoint? "The trade demand is keen, now is a good time for getting some of our funds sent home.")

Thus the difficulty of forecasting the dates and amounts of Home remittance is not solely a difficulty arising Iron uncertainty as to the prec and amount of the Administrations outcomes in London or its incomings and outgoings in India, but also the difficulty of forecasting the volume of the trade demand for remittance and the periods at which it will come forward in strength

Mr Danung's Memoran lum on Transfer of Maragement of the Paper Currency to the Imperial Bank of Ind a para 16

Bank of the a para so

4 bes Report of the Bahmgton Smuth Commuttee para 61. We agree with the Chamberlan

Comm as on in loding that course deficts are sold not for the car remone of traile but to part is the

nulls needed a fine do not none the requirements of the Section 15 do not have the sold to the

dest sense of the term. (The whole paragraph at oal) be read. I add not think it is possible fully to

dest sense of the selection of the section of the selection of the select

The first difficulty is great? and the second is insuperable. It demands, not the -statistician's gift of estimating, but that of prophecy

- 5 Question 3 The system of financing the Home Treasury must not only provide for meeting obligations at due date, but be consistent with the use of surplus funds (wherever located) to the best advintage, and in particular with due regard to sound monetary conditions †
- 6 I have just said that the amount of remittance to London is the counterpart of, and dependent on, the demand for trade remittance to India The sums remitted to London by the satisfaction of this demand are assigned, in the first instance, towards providing the immediate requirements of the Home Treasury so far as the Administration's Treasury balances in India have sufficient surplus for meeting If the surplus is not sufficient the Administration will have to borrow in If it is more than enough further receipts in England are credited to the Administration's Home Treasury account When the whole surplus of Treasury balances in India has thus been drawn off any further trade demand for remittance reserve in London and the disbursement of currency to the prices from the paper currency reserve in London and the disbursement of currency to the pives from the paper currency reserve in India Thus the total credited to the Trensurv bilances in London, plus the amount credited to the paper currency reserve in London, is equivalent to the total trade demand; whatever that may be If Indian Treasury funds are low less will go to the Home Treasury and more to the Home branch of the paper currency reserve If Indian Treasury funds are ample more will go to the Home Treasury and less to the Home brunch paper currency reserve A case conducing designedly to the lutter result is where, as in recent years, the Administration effects all its borroving in India, including provision for a large part of the Home requirements on capital account. Another case is when become and other receipts exceed and expenditure falls below anticipation
- 7 Primarily then, and dealing for the moment with the I ondon side only, the policy to which these questions tend, of stringently keeping down the Treasury bilances in London to a real minimum, would only enhance the amounts requiring to be credited to the paper currency reserve in London. In either case the sums in question would probably be invested in British Treasury bills, and, so far as the London side of the matter is concerned, the policy would apparently be nugators
- S I turn next to the Indian side If an unintended suiplus of Government balances accrues in India the Central Bank may adopt one of three alternatives -
 - (a) Keep the unintended surplus mert, ie refrain from making it a basis for
 - the creation of credit,
 - (b) Release it, as it were, to trade by granting credit on the strength of it,
 (c) Release it to trade by meeting council drafts or purchasing sterling from this source instead of from the paper currency reserve in India

Alternative (a) would not ordinarily, I think, be the correct course. The produced yield of triation and borrowing or economy of expenditure which has produced the numerated surplus bilance is equivalent to arbitrary deflation and normally needs to be corrected by the release of the funds thus drawn into the

• The uncertainty surrounding the forcessing of Ways and Veans is well brought out in para 27 of Sir Basil Blackett's speech introducing the Budget for 1926 7 — I am inclined to think that the phraseology consecrated by long usage in Indian i addget speech so which refers to the Ways and Means portion of the statements as: Ways and Means Budget is somewhat misleading in that it may tend it give the public the impression that the figures and estimates in the Ways and Means portion of the budget make a claim to comparative exactness not inferior to that in the bythe figures of our revenue and expenditure estimates. Our Ways and Means budget is intended to be and necessarily must be illustrative rather than exact. The Ways and Means Budget is intended to be and necessarily must be illustrative orther than exact. The Ways and Means Burger storing together it en ert results of operations of very varying chiracter all over India and Burum and in London. To a large extent these of extansis entire the control of the Government of India at all or only very indirectly under their control. In these circumstances it is neither possible nor desirable to attempt to lay down a rigid Ways and Means programme fain and atmos. The only result of doing so would necessarily be to swell our balances realized for the property of the programment of the programment of the only result of doing so would necessarily be to swell our balances. The only result of doing so would necessarily be to swell our balances.

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The first focinc to first focinc form any purpose disclosed in these questions to discuss the whole question of how fir section by the Administration and Central Bank crancibence and should be directed towards of now the action by the Administration and Central Daine can indicate and should be directed towards indicated by the column of the total text defended for remittance but I think that in every instance the case for such action would be found to stand or full on its own ments. The case of gold shipments is touched on in para 22 of my written statement 0 at of len high supplies balances in India treatment of the case for the case of gold shipments is touched on in para 22 of my written statement 0 at of len high supplies balances in India treatmenting them to London is examined later in this note as my questioner may perhaps have lad it in mind

The choice between alternatives (b) and (c) presents a central banking balances banking problem The distribution of credit by means of the remittance method [alternative (c)] directs credit automatically into channels of trade where it is undoubtedly wanted It also pro tanto effects, instead of postponing the adjustment of the balance of tride Normally it is I think the right course But excel tionally perhaps there may be conditions of stringency justifying the creation of credit lat more or less independent of the monetary requirements which the sale of councils and sterling purchases directly satisfy. In such cases it might be right to use high banking balances originating in undesignedly high Government balances for this purpose leaving requirements directly connected with external trade to be financed through councils or sterling purchases adjusted through the paper currency reserve

- 9 I should add perhaps that a Central Bank in the exercise of its regulating functions, might in practice find somewhat wider scope for the employment of discretion in moving Government funds than the limite I case which I have ventured to formulate But such an authority would certainly recognise the principles (1) that the building up and retention of excessive Government balances as a normal means of supplying formable capital is not sound practice and (2) that remittance through the paper currency reserve at a time when remittance through Treasury is practicable involves inflation and ultimately therefore a correcting deflation
- 10 Finally it may be added (1) that surplus balances in England are earning interest for Government while surplus balances in India are not and (2) that if surplus balances have in fact occurred at home there is no paint in letting that interest go to the bank (which would invest them on its own account if the Indian Administration did not) instead of to the revenues of India
 - 11 My views and conclusions are —

(1) The maintenance of the Home balances at a minimum is not an end in itself and needs neither to be sought after nor depreceded. The contrary view art es, I think, from looking at the Home Ireasury as a mere disbursing office and forgetting

its place in the general exchange mechanism of India

(2) Normally, the only way of keeping the Home Treasury balances at a low average level is by maintaining a close correspondence between estimates and actuals not as regards the Home transactions only or primarily, but as regards all transactions. revenue or capital Home or Indian which react on the aggregate Government I alances Sound estimating is of course always an end in itself and to this extent but only consequentially, low Home balances are desirable

(4) Exceptionally, there may be reasons as to which a central bank should be a safe judge and a commercial bank, however public sported, hardly in important judge for special steps to I eep Indian balances temporarily at a relatively high level

with the coase mence of keeping Home balances relatively low

(4) When surplus balances account at home as the result of discrepancy between estimates and actuals it is possible to look on such surplus funds as provision for the Administration s prospective requirements (see last sentence of first footnote to para 4) But this fact is not the cause of the surplus funds being sent to London. Nor is such antecedent provision called for on its own merits of

(5) Such surplusage is in esserce a temporary balancing reserve (akin in function to the Home branch of the paper currency reserve) set up by one group of normal exchange transactions and hable to be used up (or in other words retransferred to India) by another (e g Reverse bills of also the transfers and retransfers described in the Paper Currency Report for 1924 a page 15)

12 Applying these results to the question put to me I would summarise as follows the points which are essential to an adequate answer -

(A) What sums are needed by the Home Treasury ?- The Home expenditure of the year including such large and uncertain factors outside the Secretary of States control, as the Railway capital expenditure

(B) What sums are available for remutance to the Home I reasury? - The whole surplus of the Treasury balances in India, including not only that sum (an estimate

[•] Indeed any plea ti at this a m should be deliberately pursued seems opposed to Budget principles I am of course waxming that in the cont it one of the fature exchange will be fully maintainable at the contents. It is assumption could be less astely made in the pre war period of the taken as a whole, was a tentative period. And in recent years there has of course been no normal rate.

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of A above) which is included in the Budget for remittance, but any further surplus which accrues through under-estimation of receipts of any kind or over-estimation of expenditure of any kind

(C) What sums will, in fact, be remitted to the Home Treasury?—The whole amount (up to the limit of B) of the quite incalculable trade demand for remittance

to India

While therefore, it is clear that no inconvenience would be caused to the Secretary of Sixte if the provision of funds was kept in exact accord with the maturing of obligations, it does not follow, as the question seems to assume that the recurrence of large Home balances could thereby be obvirted. This can only be achieved by exact estimating—Home and Indian—and this exactitude, on the Ways and Means side particularly may often be not even roughly obtainable.

Finally, if the total Home remittance (paper currency as well as Treasury) is in

question, no estimate worth the name is possible and no limit can be set

APPENDIX 78

Statement of evidence submitted by Mr. A Bowie, General Manager of the Allahabad Bank, Ltd. (affiliated to the P. & O. Banking Corporation, Ltd.)

- 1 I have the honour to submit as an expression of my views from the stundpoint of indigenous banking, (a) a note on the question of the control of the note issue and on what principles should control or management be transferred to the Imperril Bank of India, and (b) a note on the question of what measures are desirable to secure greater elisticity in meeting seasonal demands for currency I beg the favour of your placing these notes before the Members of the Royal Commission on Currency
- 2 The control and management of the currency should be a function of Government and ought not to be delegated to an institution however powerful, owned by and managed primarily for the profit of a body of private shreholders
- 3 The result of the working of the Imperial Bink Act has been to erect a quasi state bank to a position where it is placed above economic competition and has left the indigenous banks defenceless against the operations of the state bink.
- 4 The clauses of the Act are framed to give the widest permissive powers to the Bauk to engage in general banking business and so that nothing in the Act may be construed as restrictive, it is specifically stated in the Act that nothing shall be deemed to prevent the Bank from allowing any person who keeps an account with the Bank to overdraw such account without security to such extent as may be prescribed.
- 5 Further, no additional measure of security is provided by the terms of the Imperial Bank of India Act, 1920, in regard to the statutory information to be shown in the bilance sheet. In fact, the missure of protection to the public in this respect is not equal to that demanded from the banks established under the Indian Companies Act in Form F, viz., to disclose the secured and unsecured advances and, as a guarantee of the independence and impartiality of the control of the bank to show the sums due by the directors as principals and guarantees and as partners and directors in firms and companies
- 6 The privileged position of the Imperial Bank of India hinges on the pre-tigo accruing to them as Government bankers which in the eyes of the public secures to them the support of Government in an emergence. This position in itself means an actual monetary advantage in that, with their credit as Government binkers the Imperial Bank of India ought always to be able to borrow at lower rate than other banks.
- 7 One restriction placed by the Act on the Bank's functions is that the Bank cannot engage in foreign exchange banking business so that the exchange banks working in India are relieved from the uneconomic competition of the Bank
- 8 There are no obligations under the Act placed on the Bank requiring it to make advances to other banks against Government or other approved securities, so it is within the power of the Bank at any time, arbitrarily, to refuse banking accommodation

- 9 The single condition imposed by the Bink Act requires the Bink to open 100 new offices within a stipulated period. As consideration for this undertaking of brinking development, formerly carried out by other banks on their own resources, the Bink is given the ficility of free transfer of funds and a monopoly as Government bankers of receiving the whole of the Government balances free of interest, inhitary and regimental accounts trust estates, municipalities railways, ports, universities, schools, security deposits and various sem-public funds.
- 10 The use of interest-free funds free transfer of funds, and the large payments it draws for its services in connection with the management of the Public Debt places the Bank in a position, where it meets with competition for braking business to quote rates unprofitable to other banks. Indigenous braking develops ent except within the organisation of the Imperial Bank is nullified. There is also the danger of banks being forced to seek profits in a class of business which ought to be outside the sphere of operations of properly managed banks. Both these conditions are conductive to a weak growth of indigenous banking. It is clear that there can be no strength in a nation is braking system which depends for its development on a state aided institution placed above competition.
- 11 The strong competition of the Imperial Bank with indigenous banks is generally almitted. In argument it may be stated that through the operations of the Imperial Bank banking rites and charges have been lowered with a resulting benefit to trade. But if Government wished by conferring special privileges on a selected bank to benefit trade, then in farmers to the extibilished banks these benefits should have been mide available to trade through all the banks with which the public had been accustomed to deal
- 12 It may further be argued that banking services are given by the Imperial Bank to the state in exchange for the benefits conferred yet every bank gives similar services to its numerous customers besides 12 jung interest on customers brilances
- 13 To add to the enormously valuable benefits and privilege accruing to the Bank through the operation of the Imperial Bank Act the right of note issue, with the revenue from the securities protecting the fiduciary issue or with the revenue from a direct payment, estimated without competitive tender, for control and management, would have the effect of erecting an unasvaluable banking monopoly in India.
- 14 The control of the note issue in the hinds of a state bink, competing with other banks for general public patronage and binking business, would place banks in a position of dependence to the state bank and there would be the risk of bankers needs in the matter of the issue and exchange of currency notes being made, particularly at the up country offees of the Imperial Bank, secondary to the needs of the Imperial Bank own non banking customer.
- 15 No definite benefit would accrue to the communit through the trusfer of the control and management of the currency to the Imperal Dank of Indra So long as proper reserves are laid down by statute to ensure convertibility and to ensure that the rupee will have a common monetry, basis with the leading currences of the world the question of a managed currency will not use. These would be a distinct loss to the banking community if Government ceased to control the currency. The definite guarantee of impuritality, which the control and management of the currency by the Government of India provides would be lost if the efunctions were transferred to a state-added bank that is in active competition with other banks for general banking business. If it were deeded that the note issue should be handed over to the Imperal Bunk, then the status of the Imperal Bank should be unalogous to that of the Bank of England a state bank, which does not compete with other established banks in general banking business.
 - (a) Mersures desirable to secure greater elasticity in meeting sersonal demands for currency and whit conditions should be prescribed with regard to the issue of currency against hundis
 - (b) Greater elasticity in meeting seasonal demands for currency can be expressed in other words as provision for increasing the amount of loanable capital at the busy seasons of the year
- 16 The currency ought to have no concern with the provision of lounable capital Assuming that in effective gold reserve for the note issue is established the volume of currency will increase and decrease with the gold withdrawals from or deposits in the gold reserve. This will be automatic following the seasonal demand for currency in India. Rupee exchange will move within the limits of the gold points, according

to the demand for runees Loruable capital to finance sersonal demands will flow to or from India through the agency of the gold reserve, the attraction of loanable canital to or from India being governed by the comparative profits yielded by the

Indian or English bank rates

17 The Imperial Bank rate should be regulated by the demand for money or, in other words by the supply of loanable banking funds in India Artificial measures for controlling the bank rate should not be resorted to The bank rate ought to be the limiting and regulating agency controlling credit Easy cred t encourages over trading leading in the end to financial crises A high bank rate when seasonal demands are urgent is salutary. It keeps speculation within bounds is a factor in preventing goods being held unduly for a rise in price increases the velocity of the turnover of banking funds and attracts local money to the money market Money is mailable in India if the price is paid for it and there is no more powerful agent for bringing hoards into fruitful employment than a good price for money

18 There ought to be no question of emergency currency until an emergency has arisen when if princ conditions exist the Government can talle exceptional measures

to suspend the Currency Act within strict limits and conditions

19 Regarding the que tion of what conditions should be prescribed for the issue of currency against hundis I beg to state my opinion that the currency should not be asked to function as a re-discount market. It is a dangerous principle to admit that lounable capital can be manufactured by the issue of currency notes against the deposit The supply of loanable capital is a banking function If the local money market does not suffice to meet seasonal demands then additional supplies of logicality capital must be attracted from money markets on taide India

APPENDIX 79

Statement of evidence submitted by Mr M M S Gubbay, CSI. CIE, General Manager and Director of the P and O Banking Corporation, Ltd , London

This Note is submitted on the assumption that it is permissible to travel beyond the particular points covered by the Supplementary List of Questions and is intended to concretise the points on which I should wish to tender myself for oral examination in addition to points covered by the Supplementary List

The basic principles on which the plan appears to rest are -

(1) The responsibility for the lolding of exchange whatever may be the point at which it may be stabilised should not rest as hitherto on the authorities in Simla and London

(2) Fluctuations of exchange should be left to be corrected automatically by the inflow and outflow of gold

(3) For this purpose as also as an internal circulating currency medium a

gold coin should be introduced

- (4) Indian Bank Rate policy will play an important part as a regulator to check or stimulate as circumstances may require the movements of gold in and out an I therefore the credit and exchange policy of Ind a must be unified and be directed by the Imperial Bunk
- 2 One of the primary issues which emerge from any consideration of the Indian ex hange system is the question of the Government participation in its management My view as an old official of the limince Department is that the Government

authorities themselves wish to see reduced to a minimum their responsibility and their intervention

3 A complete change over however such as is contemplated in the plan involves two radical changes in the Indian financial system -

the reduction of the status of the silver rupee

(2) the alteration of the character of the Tresent Government currency notes

into brink notes payable in gold

4 I do not consider that the effects of these two measures have had due weight given them in the proposed plan. The stages through which the scheme can be brought into ultimate complete introduction should be considered with reference to the practicability of these two measures I do not believe that it is possible as yet to contemplate either of these two changes singly each would have very far reaching consequences, and jointly they would result in general confusion and disturbance of the existing machinery

- 5 A gold coin in internal circulation and commonly acceptable is an essential preliminary to the proposed reduction of the status of the silver rupee. It will be only when the necessary conditions of general acceptability of such a coin as an internal circulating medium that the stage of demonetising the silver rupee could be safely entered upon
- 6 I feel very strongly that the replacement of Government currency notes by a bank note whether payable in gold or silver, needs to be considered, not merely with reference to its acceptability as such but also with reference to the different conditions under which a bank note will be available for issue So long as the note is that of the Government and not of a bank impartiality can generally be expected from those whose function it is to manage its issue, whether it local points or at the chief commercial centres. Suggestions have already been made of partiality under the system now obtaining at some inland points on occasions. It must be remembered that notes plas a most important part in the movement of produce and goods from point to point

A bank which has at its command the supply of notes available at any particular trading centre is naturally regarded as being likely to offer better service than another The utility of other banks to the trading bank which does not enjoy this privilege and general community may be impaired and their sphere of activities seriously curtailed and it may be that there will be some reaction on the progress which the

note using habit has made among the community as a whole

7 If the Government responsibility for the convertibility of the note is to be withdrawn the acceptability of the bank note will need in my view to be secured by provisions as to a metallic proportion far higher than that proposed in the plan The credit of the bank note can hardly rest on a metallic basis smaller than that which past experience has shown to be required in the case of the Government currency note

- 8 The admissibility as fiduciary cover for the note issue whether Government or bank note of internal trade bills appears to me to be questionable. The primary objective should be to attract gold into the Indian currency under whatever system it is to be operated whenever Indian monetary requirements call for an increase in The rediscounting of internal trade bills by means of an enlargement even temporary, of the currency will interpose an obstacle to such flow to India Further such rediscounting becomes all the more questionable when the trade bills to be offered as cover for the h luciary issue are bills not rediscounted with the Imperial Bank or with the bank of issue by other banks but may be bills purchased by the Imperial Bank in its character as a bank engaged in general commercial and joint stock banking
- 9 Similarly, the provision as to the admissibility as fiduciary cover for the note 1 sue of sterling bills drawn in India will if it became operative, also interpose an obstacle to the flow of gold into India

10 The plan lays upon the Imperial Bank the obligation to keep the Secretary of Sinte supplied with funds to meet the sterling charges of Government

As the custodian of the Government's lalances and as holding bankers' balances the Imperial Bank has responsibilities as well as privileges, the discharge of these functions cannot always be impartially harmonised with its own interests as a bank engaged in joint stock banking and commercial banking as a branch bank and as a bank of deposit and the privileges which it already possesses secures for it a favoure position. The extension of its functions so as to embrace (a) the management, as position The extension of its innertions of the steeling requirements of the fund is use, and (b) the provision of the steeling requirements of the Indian tovernment will not only vastly increase its commitments it will also increase the points at which its interests as a private institution designed to make the best use of shareholders capital, come into conflict with its duties as in impartial body conceived for the purpose and charged with the duty of regulating the supplies of credit in the general interests and of stimulating under guidance and wise control the development of broking in India

It would appear to be essential to define very clearly and rigidly the limitations which should be observed by the bank in the different expecties in which it will be require I to function if room is to be made available for other banking enterprise in ireferably, these different functions should be differentiated, and their discharge left to be effected not by one single institution but by separate institutions

APPENDIA 80

Statement of evidence submitted by Dr. T. E. Gregory, D Sc. (Econ) Lond, Professor of Currency and Banking in the University of

The rupee should be stabilised and the gold standard adopted

1 I believe that the time has now arrived when the stabilisation of the runce can be safely undertaken At the time of the Babington Smith Commission, it was not held that the practical abolition of the gold standard in Europe stood in the was of fixing a parity with gold and the case against a continuance of a fluctuating exchange is much greater now, when the greater part of the world has again stabilised the external value of the various currencies employed

The time has also arrived in my opinion when India should adopt the gold standard and not merely the gold exchange standard I have my opinion upon the well known fact that Indian public opinion has long demanded such a step, upon the consideration further that the failure of the experiment of 1920 has discredited the currency policy of the Indian Government, lastly, upon the feeling that the wider the area in which gold serves as a standard and the principal coin, the less the danger

of a further fall in the value of the metal

The rupee should be stabilised at the rate of 1s 6d.

2 I attach no importance to the suggestion that the transition to the gold standard would involve a surfiler demand for gold if a rate lower than the existing rate were adopted as the basis. This view seems founded on the erroneous idea that the total volume of the currency in India would be the same whether the parity were 1s 6d or 1s 4d, or even a lower figure. If a rate lower than 1s 6d nere chosen the volume of money in India would have to be increased to prevent the sterling value of rupees from rising and consequently money incomes would rise also It makes no difference whether an individual buys 113 grains of gold with 13 rupees or with 15, if he is in the second case given a larger number of rupees to buy the gold with It is true that a reduction in the gold or sterling value of the rupce would reduce the buying power of those classes of the population whose incomes are fixed in terms of money by law or by custom but I cannot admit that this would make much difference to the total demand for gold, or that, even if it did. it is a policy which ought to be advocated I do not think that the serious social consequences which accompany a full in the value of money are outweighed by the considerations that the adoption of an La bd rupee gives an awkward relation to the £ sterling, or that it may have some slight effect in stimulating imports into India. or that on paper it gives a higher sterling yield to the holder of rupee securities So long as gold only buys about ten seventeenths of what it did before the war, the creditor of the Indian Government has very little to be jubilant about. In my case, agrinst his gain must al o be set the gun to India arising from the smaller rupee burden of the Home charges

The question of gold output and prices

3 I have no special technical I nowledge of the economics of the gold mining industry which would enable me to give a categorical answer on the subject of the future output of gold But the general economic aspects of the matter are clear There is no reason to suppose that gold mining differs from other mining, so that it is likely that the progress of mining technique will operate in the lature, as it has in the past, to make the marginal mine one that in the past it would not as it has in the past, to make the marginal mine one that in the past it would not have paid to work at all. This kind of influence on the output of gold one has every reason to expect, even if no new areas are opened up. Of course, if world prices were to full, it would pay to operate mines even poorer than the pre-ent marginal ones. Thus, though it may be true, as Mr Joseph Kitchin has argued, that the tendency for gold output is to full vet the rate of decline may be slower than was anticipited. In my case the fall, in output which he predicted in 1924 has not vet. begun to munifiest itself, for his estimate of gold output for 1925 is higher than his estimate for 1924, Ar 481 millions against 479 millions. Even if we take his original figures and argue that world production will fall in the next decade at the rate suggested by him world output would still be £741 millions in 19.0, and, on the resumption of a continuous fill at the same rate, £67 millions in 1910 If we

^{*} Harvard Review of Leonomic Statistics, tpril 1924 "Gold Production, a Surrey and Forecast" † Figures from Messrs Montagus " At musl Bull on Letter

assume that the Indian private demand will continue at the werige pre war inte (1908 13) ie 29 crores sav. at 18 61 per iupee ±22 millions and if we further assume that the transition to the gold standard were to start in 1930 and were to be completed in 1140 then India would absorb about three-sevenths of the current

supply in the first year and rather less than 50 per cent in the last year

supply in the first year and rather less than no per cent in the first year. The world's industrial consequention of gold is stated in the 1923 Report of the Director of the U S A Mint as 87 million dollars in 1921 and 101 million dollars in 1.12 If we take £20 millions as the average figure, then the Indian private demand plus Indian currency demand plus world industrial consumption would absorb \$3 and 3. of the total output at the beginning and end of the transition period the surplus available for the currency demands of other countries being then in absolute amounts about £23 millions and £15 millions respectively

4 Aux prediction as to how the future of prices will be affected by demands for gold of this order of magnitude in relation to the supply of gold as estimated is impossible so long as we know nothing of the future reserves of gold which nations will think it worth while to keep. In this respect the war has brought about a currency revolution Lehfeldt and Casself have shown that in the 19th century the secular course of prices varied according as the actual output of gold rose or fell below the required output ie the mount which would just have kept prices stendy world productivity being what it was Both these writers agree that in pre war years the actual output needed to be between & per cont and 3 per cent of the actual stock of gold in existence in order to leep prices steady. But currents conditions to day have completely altered. Not only is little gold in circulation but it is now recognised that the central banks of the world kept gold reserves much laiser than they needed to keep in order to meet all demands lilely to be made on them The result was of course to keep up the value of gold

The tendency in the post war would is to keep smaller reserves partly because central banks want as large a portion of their assets as possible to be earning assets partly because the war showed that gold reserves were not the sinews of war that they had been supposed to be before the war brole out Consequently a falling off in gold output does not necessarily have any direct effect on price levels at all in these days banks reduce their reserve ratios a little, and that is all Some banks have reserve ratios which are absurdly large even now, and it is quite cle if that it would per in the strictly conomic sense, for the United States to exchange 500 millions of superfluous gold in the viults of the I deral Reserve System for an interest bearing debt contracted by India. Tiking a vorld view I cannot regard a demund for an extra £100 millions of gold on the part of India as likely to imperil the general

stability of world credit in any way

The positio i of the London money market

5 Though it is in my opinion clear that the present and anticipated yearly output of gold and the present monetary gold stock of the world are quite large enough to support an additional demand of the kind suggested in the Proposed I feel also that the proposal to absorb as much as £50 millions within one year of the commencement of the plan would tend to create alum in the London money maket and would to that extent can e opposition to the whole plan to The gold in the Bank reserve can be taken at £23‡ millions the reserve ratio at 20 per cent as compared with the pre war 45 to 50 per cent Under these circumstances it can be argued that the mangaration of the scheme would involve grave risk of higher bank rates here in order that the gold taken for India from bank reserves here would be attracted here again either from South Africa America or other treas at present on a gold standard The question whether such higher bank rates here would maugurate a series of msing rates in the test of the world depends on the extent to which other countries re, and themselves as possessing surplus stocks of gold or not af they were content to allow gold to move to London to replace that taken from thence the influence of a higher bank rate would be directly confined to London though it might have indirect effects elsewhere

Under the actual circumstances of the London money market, a diain of gold to India would probably not have the effect so much of rusing rates over time as of postponing their reduction The position of London is complicated by the

Lel feldt Gold Prices a diffe Il sticolerirand Clapter II bee op cit p 37 for further references t C sel Theory of Social Loons y Vol II Sec 53 et seq

circumstance that the process of adjistment to the restored gold at indard is still going on and the market is thus peciliarly sensitive to loses of gold. The tendency of rate to full when our own adjustment land been completed might thus be interfered with but to the extent that the bank authorities can be induced to consider a lower reservors not necessarily imperilling the position of London as a financial centre an outflow of gold to India would not induce permanently higher rates. Whilst I legard it is very important that any acquisition of gold should be carried out in such a way' as not to bring und is pressure to bear on the London market, both on economic and psychological grounds. I think it desirable to stress also the two following points in order to word misunderstanding.—

(a) A country cunnot lose it's gold against its own will Gold can always be

got at a price the price to be paid is a price level which will attract gold

(b) The acquisition of gold in pursuance of a pre-determined plan is in its reaction on the situation in the country from which the gold is drained to be judged differently from loses of gold in that country due to lack of equilibrium of price-levels. For the litter indicates a disease which is peculiar to a particular area which unless cured means continuous monetary deraugements. The policy which must follow from the follow resultant on depends on whether or not stocks in the country from which gold is talled are to be regarded as re lundant or madequate.

£100 vall o is of gold not necessary

6 I do not however regard the amount of gold which will be required by India in order to pass to the gold standard as being necessarily anything like as large as the figure stated in the Proposed Scheme This opinion I reach on the following grounds —

(a) The scheme is built up on the old fishioned assumption that the correct way of injugariting a gold standard is to require large supplies of gold and to exchange them for silver which will then be sold at a loss the extent of which it is impossible to estimate beforehand. This method of introducing the gold standard quite rightly foresees that it is impossible to muntum in circulation both the ensuring volumes of non gold currence and the amount of new gold it is desired to introduce and hence proposes to deal with the mutter by reducing the legal tender quality of the silver coin. But the value of the silver rupes depends not on this but on its quantity. I believe this method to be wrong in principle and likely to bring about the very exils it is desired to avoid.

(i) The introduction of the gold strandard does not logically or practically involve in midiate circulation of large quantities of gold. What it does involve is the extension of the use of gold in the fiture ie the opening of the littles to gold the grant of fill legal tender power to gold and the maintenance at par with gold [though not the imme tante right of conversion into gold?] of all other forms of currency. In correct device for passing over to the gold standard is thus the limitation of the quantity of other forms of currency. The normal growth of trade and population can then be rehed upon to fill the gap caused by the non increase in the other.

forms of currency other than gold

Provide I that the quantity of silver is limited there is no reason to limit the legal tender quality of the silver rupee, and every reason why it should not be limited

(i) The knowledge that such silver as is actually hearded will be deprived of its legal tender quality is surely the best mens possible of cusing a panic and of increasing the imme lints supplies of gold which may have to be provided. This danger of panic demands is certainly increased by the suggestion in para 25 (ii) that the putting into circulation of a gold coin in exchange for notes and rupees should be discretionary in the interim stage of the scheme. Whether or not the scheme is introluced by stages on the lines suggested in the Proposed Scheme or on some other basis both Government and the people of Indra should know in advance precisely what it is intended to do at any particular stage.

(ii) 'assuming the scheme to be adopted there seems considerable danger that the time required to every it out will be increased owing to the pressure of intere ted parties who will protest against the lose so to then resulting from the fall in the price of silver. The experiences of Germani after the currency reforms of 1871 3 show how the ferr of loss from the sale of large stocks of silver on the one hand and the alarms of the silver parts on the other hand produce the very situation it is hoped.

[&]quot;Il at s the date at wi ci tie Mots are opened to gold need not cone de with the date at which siver an ale convert ble nto gold on den and

a panicky silver market and a postponement of the final stages of the to avoid If the Government is to get rid of silver, let it do so as soon as possible and not disorganise the market for 10 years I attach no very great importance to the argument that the annual sales would amount only to the "average net imports of silver into India in recent years ' The net demand for silver in India will decline, mainly because if silver is regarded as likely to depreciate in value no one will want to hold large stocks of it. (I can see no virtue in the proposed import duty the world price is bound to full if large sales of silver take place, and though the Indian price may be somewhat above the world price it too will be lower than it is now. If it is much above the world price the duty will certainly encourage smuggling

political consequences of the policy also seem to be undesirable)
(iii) A further point may be alluded to here—India is a relatively poor country, in which the mass of ordinary transactions is likely to be for small amounts. On the other hand, technical conditions make the issue of small gold coins undesirable present rupee stock, including those in the currency reserve is only about 12 per camta I suggest that this is not an amount which provided that the total is not increased during the transition period, could possibly imperil the transition to the

gold standard

- (18) I notice a suggestion in para 4 (1) in the Proposed Scheme which should be questioned I refer to the sentence implying that during stage I 'a statutory obligation should also be imposed on Government to give in exchange for gold bullion notes or silver at a price equivalent to the par of exchange, &c There is no valid objection to be made if this sentence only implies that silver or notes will be issued against tender of gold within the limits of the existing issue, if it implies that the volume of notes or rupees is to be increased it will delay and not assist the progress of the reform for so long as the rupee or the notes are not convertible at will, their value does not depend upon the nature of the security behind them, but upon the total quantity in circulation. To the extent that there are more rupees or rupee notes, to that extent other things equal, will their As the object of the reform is to leave a gap in the circulation which can be filled by gold, silver or notes should only be given for gold within the limits of the actual existing circulation, so long as complete convertibility has not been introduced
- 7 I am of opinion therefore, that there should be no interference with the legal tender quality of the supee If the rupee remains unlimited legal tender, a reduction in the number in circulation is not necessary on any grounds no heavy pressure on the world's money markets will then be felt and no danger to the progress of the reform will arise from the possible ill effects of the sale of very large amounts of silver The reduction in the number of rupees in order to widen the area to be occupied by gold, should be confined to the sale of the rupees in the paper currency As, however, the smallest gold com cannot be less than Rs 10, and as it would probably be better to make the smallest gold coin twice as large as this Government will always require some silver for the conversion on demand of the notes If no notes under Rs 10 are issued the place of silver in the under Rs 10 circulation will be increased The maximum sale of silver would thus be 90 crores, and it might in practice be a good deal less (see para 9 below)

S I come now to the transition to the gold standard I recommend-

(a) That the Mints be immediately opened to the comage of full-weight gold coms. in unlimited quantities The minimum denomination to be Its 20 until the manguration of the full gold standard which I recommend should not be delayed for a period of more than five years from the date that the Mints are thrown open to the comage of gold The size of the smallest gold come can then be reduced to Rs 10, if it is considered desirable The gold coins to be unlimited legal tender and a seignorage charge to cover cost of comage to be imposed

(b) That no further comage of supees or increase in the note issue beyond the present limits be permitted in the interim period If gold be tendered for notes, the total of the notes to remain unaltered and a corresponding portion of the investments

in the paper currency reserve to be cancelled

in the paper currency reserve to be such as the paper currency reserve such portion to (c) That of the 90 crores of rupees in the paper currency reserve such portion to be sold as is not required to take the place of notes under Rs 10 the retirement of which I recommend, and a further amount which may be required to encush such Rs 10 or other notes as may be presented for redemption before the expiration of the first five years of the scheme On the injugaration of the convertibility of notes into gold, whilst some silver will probably still have to be held, the silver portion of the

- 9 Estimating the amount of notes under Rs 10 denomination as in the neighbour bood of 20 crores, this scheme involves intrinumes also 70 crores, or, sai 50 crores within the next five veris. The minimum amount of gold to be acquired will amount to 27 crores of £20\cdot nullions stelling or about £4 to £5 millions per annum. The sale of 50 crores of rupes will involve some 172 million concess which, it the processimated in the Propo ed Scheme would bring in about £17 millions. The resulting deficiency should be inade good either by a loan or by appropriations out of the gold standard reserve.
- 10 The Committee my cute to consider the cyse for the immediate commencement of in Imperial Brain host issue. I his could be done by trustering the gold in the paper currency reserve to the Imperial Brain which would issue gold certificates therefor. Cold when presented for the first inverse would be bought not with rupee notes but with gold certificates. I given increase in the Bank issue of these to be recomprused by a proportionate reduction in the inducary note issue of the Paper Currency Department. Gold required by Government against the sale of silver similarly to be transferred to the Braik and the gold certificates to be held in the paper currence reserve instead of the gold itself. In this way at the end of five years the Imperial Bank would hold a minimum amount of gold equal to 57 crores against a total of 57 crores of gold acertificates in the paper currency reserve. Assuming no gold to have been sold to the Bank for gold certificates except by Government, the Government note issue would still remain at 190 crores II 10 crores of gold had been sold to the Bank for gold certificates except by Government, the Government note issue would still remain at 190 crores would be no circulation and 57 crores would be held by Government. This suggestion does not in any way after the economics of the situation, it has the sentimental value that it would aftered some proof that the transition from a Government to Bank piper currency was under way. A special department of the Imperial Bank would have to be created and the certificates would have to be tall times fully breaked by the gold which they represented. Since gold to the convertible into gold on demand

APPENDIX 81

Statement of evidence submitted by Dr Edwin Cannan, MA, LLD, Professor of Political Economy in the University of London.

1 The interest of India

If (a) I felt complete confidence that the principles of the gold exchange strudard would always be properly curried out and if (b) I distinguished the view of the question which is taken rightly or wrongly, in India I should see so far as India's intere t is concerned very little difference between a gold exchange strudard and a gold-currency standard.

But neither of these conditions are fulfilled

(a) Considering the history of the past and the probabilities of the future I feel no confidence that the management of a gold vachinge standard will always be in the hands of persons willing and able to make it a success. Therefore, if I were miself an Indian I should prefer the simpler gold currence standard as being less likely to be broken down by had management. I should not regard the fact that the gold exchange standard properly worked, is a little cheaper, as sufficient compensation for the extra risk involved in it.

(b) Opinion in India cannot be distegrated. So far as I can judge, the opinion of those who take an interest in the subject in India is overwhelmingly in Invoir of a gold currency standard. Probably this is very largely a unitier of national sentiment the feeling being that Western nations adopted gold currencies in their own interests, and that India is procedule if the following their example by the influence of London financial circles upon the British Government. To argue that India is too poor and brekward to make good us of gold is very naturally regarded as adding in ult to make the subject of the sample of the second of the sample of the second of the sample of the second of the sample
2 The interest of Great Britain and the West generally

The interest of Great Britain and the West generally is that India should be prosperous and well satisfied and to secure this Great Britain might well be

contented to incur some inconvenience, especially when the inconvenience would not be peculiar to herself, but would be shared by most of the Western countries. But it seems more likely that the gold standard countries would be benefited than that they would be inconvenienced by the introduction of a gold-currency system in India.

The I uropean and American demand for additional gold for currency is not likely to be as great as before the war, since (a) people who have once become accustomed to paper currency do not wish to return to gold come (e.g. California has not returned to the habit of using gold comes), and (b) the superstition that immense cellarfulls of eternally idle gold are necessary to back or "support" the value of paper currences is, like other superstitions losing strength Consequently, if the Dast takes no more gold than befere there is great danger of a further depreciation of gold, and, which of course is the same thing a further rise of prices in the gold standard countries. It is true that rise of prices makes things temporarily easy for the business man who lives by profits but all experience goes to show that it tends towards general unrest and the spread of revolutionary and destructive iders that it ruins government finance, and should be avoided like poison by every wise statesmin Additional demand from the Dast therefore, if on a moderate scale, is not to be

feared but to be welcomed by the gold standard countries of the West

Smallness of the amount of gold required for a gold-currency standard

I see no ground for supposing that if complete liberty of exchanging all silver rupees and currency notes into gold coins were given at once all over ludar there would be an enormous demand for gold coins unless some ill advised action had created distrust in the rupees and notes

Small cash is a necessary of civilised life. The principal factor in determining how much per head of population will be required in the smaller coins is the mignitude of the coin or note immediately above them. In other words, the amount per head of where coins in any country, where gold or notes are used for large payments, will be found to depend principally on the magnitule of the smallers gold coin or note. The silver coins in circulation in the United States amount to about 23 dollars per head, in England they are about double that amount, and the explication obviously is to be found in the fact that the lowest note in England, ten shillings is much bigger than the lowest note in the United States, one dollar.

The poorer the people the larger the proportion of their total cash will be in coins

of small value

Taling these facts and everything else known to me into consideration I find it difficult to believe that no more than Rs 5 per head would be required for active circulation, even if the smallest gold con were the half so energy and the existing amount of 5 rupee notes remained in circulation. If the smallest gold come were a 10 rupee piece, which is quite small enough for a gold coin the amount required would be still larger.

The impression that in ease of the introduction of gold currency there would be a run into gold ones seems to be founded on a belief that a large proportion of the silver coin outstanding consists of heards which have been swied and are not to very active circulation, and, further, that these horids would to a large extent be brought out for conversion into gold. But, gruining their existence, why should these horids be converted? To bring them out would be inconvenient to the owners owing to the risk of publicity and robbery und nothing would be gained by it except some saving of space which is really quite negligible in the case of hoards already made. No doubt in future those hoads if any, which would under existing circumstances be made in silver com, would tend to be mide in gold coin, but there seems very little reason to expect any appreciable conversion of evisting horids—seems very little reason to expect any appreciable conversion of evisting horids—for the detail of the section, in the silver coins.

4 Silver rupces should continue to be unlimited legal tender

Few things are more likely to create distrust in the silver come and consequently lead to a wild rush for gold than an announcement that it is intended to error that after a certain date they shall cease to be unlimited legal tender. An Englishman knows by experience that the limitation is of no practical importance, and has more fair, when he happens to have collected a hundred or even a thousing shillings that those come will not buy him as much as five pounds and fifty pounds in notes or sovereigns. But to an old Indian village, the news that he has got more silver upees than his creditor need accept its likely to be most alarming. Pradence will suggest to him that he should at once take advantage of any possibility of convertigation.

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silver into more reliable money. The proposal to limit the legal tenderability of silver rupees is most dangerous and should not be mentioned even as a remote possibility.

In limiting the legal tenderability of the silver rupee India would only slavishly copy a completely une sential and unimportant feature in the English system Smith suggested a limit for the English silver long before the true principle of token currency had been discovered and he had nothing to say for his proposal except that it would prevent bankers on whom there was a run from endeavouring to gain time by paying in sixpences and thus, he thought, induce them to be more careful to keep reserves adequate to meet a run. In 1816 his proposal was adopted and since then the English silver currency has given little trouble, but this has not been in the least due to the legal tender limit of forty shilling. It is due to the fact that the executive Government apparently by accident rather than by design, never carried out the intention of the Act of 1816, which was to establish free coinage of silver, subject to a seignorage . The Mint was kept closed igninst coinage of silver for anyone except the Government itself, and the Government voluntarily limited the amount issued to what would circulate comfortably at par Not understanding this writers on currency and authors of economic text books used to say that the value of the silver come was municipand by the limitation of their legal tenderability—as if a disability could increase the value of anything! When this extraordinary doctrine was challenged the only defence which could be thought of was to allege that the limitation prevented the silver currency being much increased (and therefore depreciated) by the operations of false comers—as if there were the least probability of false comers trying to pass nine bad half-crowns or forty one shillings in a single payment! Mr Ambedkai in a book which in some re pects is valuable (I roblem of the Rupee p 290) tries to revive the doctrine by suggesting that the limitation of legal tender prevents the Government itself from issuing too much token currency But this is not true since in transactions between the post office and its cus omers and in paying docks and and other weekly wiges the Government can easily pay out far more silver coins than it receives and that without compelling anvone to take more than 40s at a time As a matter of fact when Goschen was Chancellor of the Exchequer and wanted to do something for silver the Government did actually issue too much in that way and was only stopped by the remonstrances of the banks which objected to having their viults crammed with silver coin which their customers had no need for

It must not be forgotten too that the wildest advocate of a limitation of legal tender has never gone so far as to claim that it brings about a reduction of the silver currency when that is required in order to meet a diminution of demand. In a steady progressive tate of things such a diminution is not hilely to occur and none seems to have leen observed in Great Brittin after 1816 till recently. Then it was found that the silver currency required a coast leadle reduction from the peak which it had reached during the war or the armistice period and the Government had to withdraw

no less than £7 000 000 from circ ilation and place it in reserve

There are of course plenty of examples of salver currencies with unlimited legal tender power existing in gold-currency standard countries. Ihe thalers in Germany after 1870 are an instourcal instance, the salver dollar in the United States is still, I think unlimited legal tender.

5 Silver rupees should like notes be convertible into gold coin

It is true that in Great Brit in the Executive his maintained the value of the silver currency without being compelled to do so by Statute and that in the United States the Executive has at some periods maintained it while the Jegislture was doing its best to destroy the gold standard but it seems desirable as a rule that the obligation to leep up the value of the silver by not issuing too much and by withdrawals when by not accident the amount has become excessive should be definitely imposed upon Executive (coeraments. The best was to impose the obligation: by requiring the Government to convert the silver into gold coin on deumand as was done in the Geiman monetary reorganisation of 1870.

I see no reason for supposing that India should be an exception from the rule

6 Cutious and gradual but rapid introduction of gold-currency standard

I submit the following as the steps by which the transition to a gold currency strudent could be made in India without my large risl at any point and at the same time with considerable repidity assuming of course that difficulty is not intro lineed by an attempt to combine the reform with a departure from the already established actual evelvauge market value in gold of the ruj ee —

[•] The proves on for free comage of a liver was not struck of the lawfill the Comme act of 18.0 If it had remained till the time of the bimetallic controversy doubtless much more would have been detailed.

(a) At once open the Mint to the free coinage of gold, the Mint to be bound to-Live (after a reasonable interval for time in manufacturing the coin) as much gold in

com as it received in bullion less a small charge for cost of manufacture (n) At the same time decline the new coms and equivalent of lones if any, to be

legal tender (unlimited) as rupees at the ratio fixed (e.g. if the 1s 6d exchange is the basis, sovereigns would be legal tender for 13J rupees and a new 20 rupee coin would contain as much gold as a sovereign and a half) (c) At the same time suspend all additional issues of silver coin, and stop all additional i sues of notes redeemable in silver (D) Then male the notes convertible into gold coin at the option of the holder,

but proceed by instalments taking first the notes of largest denomination and proceeding downwards class by class very rapidly if no demand appears at each stage till all the notes are convertible into gold

(E) Then apply the same method to the silver rupees, taking them in instalments,

beginning with those of most recent date

There seems every reison to believe that if this method were adopted without much flourish of trumpets complete convertibility of ther come and notes into gold coin could be introduced in the course of a single vert without crusing any appreciable demand for gold. The overwhelming majority of the people would not become aware that any change was going on and those who knew about it would have no reason for taking any action. The maximum possible additional deinand caused by each successive instalment would be exactly calculable before the instalment was taken in the experience with the earlier instriments being available

But though so unobtrusive and safe the methol would accomplish all that is required, and that very quielly since India would be on a gold-currency standard from the moment when the 1 000 tupes notes give their holders power to draw

meltable and exportable gold

Some time after the process described above was complete, increase of population might require the suspension of additional comage of silver to be terminated to prevent any temptation to make a profit by over issue, it might be well to provide that any profits obtained by additional issue should be realised in gold, and held in reserve to meet the possibility of a backward fluctuation necessitating a redemption of silver coin

Cost of the reform magnitude of reserves and their use

It may be asked ' If (as as argued above) little or none of the existing silver and note currency will be converted into gold coins how will India have a gold

The answer is that she will have it in the same sense as the United States line it I wo years ago I travelled at my own expense in that country from Detion to Los Angeles and then to Washington and New York without ever touching or seeing a gold coin but nobody doubts that the United States is a gold currency standard The fact that nobody there cares to carry about 5-dollar and 10-dollar gold coins does not prevent their being current coin which will satisfy iny creditor's claim for dollars

Probably, indeed private persons in India would soon be holding more gold coins than private persons in the United States At present most hoarding is said to be in the form of uncoined gold and it would certainly appear likely that gold coins each of which was a definite number of rupees would be preferred to bullion wherever no

question of ornament or ostentation arises

Moreover, the reserve against notes and (if any) against silver coins would be held entirely in gold It is in the cost of the exchange into gold of the silver at pre ent held that we are to look for the cost of the reform If the reserve is to be kept up to its present nominal magnitude and the silver rupees in it can only be sold in the world bullion market for 9d each (instead of at the rupee value of 1s 6d) this

cost will amount to about £33 millions

Whether this sum could safely be reduced by some cutting down of the proportion of the reserve I do not profess to know It must depend largely on Indian conditions with which I am not familiar But I do protest strongly against any provision that the reserve shall not be allowed to fall below some stated ratio Such a provision simply sterilises a quantity of gold making it is useless as if it were still at the bottom of the mine from which it was extracted A reserve should be usable down to the last peany To say that in an emergency the law can be broken or suspended is no defence, since violent disturbance is caused by the agitation which ensues when the absolute limit is approached and it is still uncertain whether the law will be maintained

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APPENDIX 82

Statement of evidence submitted by Mr. Joseph Kitchin, Manager and Director of the Union Corporation, Limited, London.

I-GOLD

THE RELATION BETWEEN THE WORLD'S DEMAND FOR GOLD AND ITS SUPPLY

- 1 Table VII gives the detail of the world's production from the record of 1915 It covers a period of 11 years during which the world has produced \$868,500,000 of gold, of which £407,000,000, or 47 per cent, was contributed by the Transvaal It is worth noting that of the £4,630,000,000, which, according to the records, has been produced since 1493, £2,025,000,000, or practically one-half, has been produced in the first quarter of the present century, as compared with £1,568,000,000 for the whole of the nuneteenth century In 1848 1875, Edward Suess has calculated, 68 per cent of the output was derived from alluvial, while to-day its quota has fallen to 8 per cent, and banket—practically confined to the Rand—yields 50 per cent
- 2 In reading the table it must be remembered that the Rand white miners' strike of January March, 1922, reduced the output of that year by about £6,000,000 and so in a sense the year of lowest production since the record of 1915 was 1921, and not that which followed it. One can therefore say that, partly as a result of exhaustion of mines, but also as a result of the increased cost of working resulting from the Great War, the yearly production fell from £96,200,000,000, or 76) per cent of 1915, while it has since increased annually until it has reached £80,000,000, or 83 per cent of 1915. In 1924—and again in 1925, by a narrow margin—the Transval improved upon its previous best, and Canada also achieved a record. Apart from these two, and probably Russia, the principal goldfields of the world were either stationary or declining, and there is distinct indication that, although the world's recovery has perhaps not yet spent itself, any further advance if it takes place at all, will probably be on a more moderate scale than in Integers.
- 3 The gold output for 1925-29 is assumed to vary little from the £50,000,000 of last year, and to be between £75,000,000 and £80,000,000 in 1930 Of this amount file Transvard is credited with £35,000,000, and the rest of the world with £40,000,000 to £45,000,000 B the year mentioned Canada may reach £12,000,000 and Russia £5,000,000, while £9,000,000 is taken for the United States For the five years to 1929 the world's production may be estimated at £375,000,000, of which 1925 has already contributed £50,000,000 There is at present no reason to assume any higher figure for the further period to 1935, when indeed it is expected to average less, and to total £350,000,000
- 4. Table VII also shows gold consumption annually for 1915 1925. The first four side-headings give the demand for gold for other than monetary purposes, and the difference as compared with the output of the year is the amount assumed to be added to the stock of gold money in the world, excluding India, China, and Egypt, which are regarded as hoarding countries except so far as they may disgorge gold. The data for these three countries are the net gold imports (or net exports where the minus sign is employed) corrected to the normal or mint price of gold, plus the gold production of the first two. The figures for industrial arts apply to new gold only, and are based on the incomplete returns to the Bureau of the United States Mint with the writer's estimates for the gaps.
- 5 India's demand has varied in extraordinary degree. For some years that country was prevented by administrative action from absorbing the metal, and the high figures of recent years are doubtless due to its making up for lost time and also to over-stocking. In 1924 25 its quota reached a record figure, and 1925 26 will show a sensible reduction, though it will still be high. It is assumed at \$27,000,000, including its own production. In the table India's fiscal year to 31st March is taken because it is better to brest the figures on the annual trade returns and also because there is a lag between output and import owing to gold taking one to two months in its journer from the place of birth to the place of virtual burial. If the calendar year were taken the figures would differ very wiely

from those given, though they would naturally show the same average over a suffi ciently lengthy period of time The alternative figures are £200,000 (net exports) for 1919, £32,700,000 (net imports) for 1920, £10,300,000 (net exports) in 1921, and £17,500,000, £24,900,000, £24,900,000, and £34,200,000 (all net amports) for the succeeding four years to 1925 On this view of the matter India took more instead of less gold in 1925 as compared with 1924, but there is at present a distinct falling off, which the table better reflects

The balance available for money was exceptionally low in 1924 as in 1919, and on the whole, there has been a distinct falling off, for taking the figures from 1911 to 1925 for three years at a time they have been £133,000,000, £217,000,000, £126,000 000, £122,000,000, and £85 000 000, the second figure being doubtless

exceptionally raised by reason of the War

With regard to the demand to be set against new gold production, the first column of Table I shows that the requirements of the industrial arts up to the War continually expanded, except that they remained practically stationary during the 20 years to 1894, 1 e, during the period of falling commodity prices The amount in 1894 was £10,800 000 and thereafter it increased almost annually until in 1913 it reached £27,300 000 For the 12 years since, owing to the War and its after effects it has averaged only £18 000 000 and for the last two years has been about £16,000 000 Judging by the 1913 figure there is evidently much room for expansion, but for the five years to 1929 the writer takes it at £13,000,000 per annum only while for five years further perhaps £22,000,000 could be set down The Indian demand has also varied with the trend of com modity prices, the average of £5 900 000 per annum for the ten years to 1869 being month than have during the subsequent fall in commodity prices but thereafter averaging £4 800 000 £6 200 000 £10 000 000 and £19 200 000 for the four quinquenna to 1914 15. The five years to 1919 20 including 2½ years of restriction of imports showed £10.200 000 per annum and the following five years with free importation allowed £20,600 000 the average for the ten years being The demand for the five years to 1929 30 with Indian £15 400 000 per annum monetary conditions unchanged might be estimated at £120,000 000 of which the monetary community manager and the first year will probably have given £27,000,000 leaving £23,000 000 per annum for the last four years of the period. The following five years might require China's demand is fickle, but less so than in the case of silver £110,000 000 It has taken £11 500,000 in a single year (1910), but at other times disgorges gold There are indications that China's preference later on will be for gold, which would be in the natural course of events But this tendency may not be pronounced in the coming 10 years and its demand may be set down moderately at £2,000,000 per annum for the five years to 1929, and at £3 000,000 for the following five years

The figures suggested are se follow

o the ugures suggested are as follows		
Industrial Arts (America and Europe) India China	£ 90,000,000 120,000,000 10,000,000	5 years to 1934 £ 110,000,000 110,000,000 15,000,000
Total demand Assumed gold production	220,000,000 395 000 000	235 000,000 360,000,000
Balance available as money	175,000,000	125,000,000
stock of Gold Money at end of period	35,000 000 2,275,000,000 272d	25,000,000 2,400,000,000

- Other observers might vary these estimates—and in both directions—and fulfilment may, and must be expected to, differ from them to a more or less important extent. But however they may be varied, they would not materially alter the general result—that the balance available as money in the ten years must be expected to be much below the £54,600 000 and £49,400,000 per annum of the two quinquennia to 1914, while the needs of the world will be much larger than
- 10 In the past there have been fairly well defined periods—which can natur ally be varied by a few years, according to the taste of the observer-in which the stock of gold money per head has alternately risen not at all or but slowly and then

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advanced with marked rapidity Such periods with their figures are as follows, the compound rate of increase applying to the "aggregate" and not the "per head" column —

	World & Stock of Gold Money		Internal Average rate of	Average rate of general	Trend of economic			
	Aggregate	Per Heal		Increase	per annum	factors in the period of	factors	
1807	160,000,000	d 54	{	£	1			
	1 ' '	1	40 yrs	1,200,000	0 6%	1810-1851	Stationary or falling	
1847	207,000,000	50	21 yrs.	15,400,000	4 6%	1851-1873	Rising	
1868	531 000,000	103	23 yrs	8,500,000	1 4%	1873 1895	Stationary or falling	
1891	733 000 000	122		, ,				
1918	11,917,000,000	254	27 yrs	13,900,000	3 6%	1895 1920	Rising	
1034	22,400,000 000		1	2 50,200,000	?1 4%	1920- ?	Stationary or falling	

In the two periods 1810 1851 and 1873 1895, following with a lag of a tew years the periods of comparatively stationary gold money, London Bankers' Clearings, UK foreign trade, UK incomes, and UK wages were stationary and the Bank Rate tell, while in the two periods 1851-1873 and 1885 1920, when gold money was rapidly increasing in amount, Bunkers' Clearings, foreign trade, incomes, and wages advanced swittly and commodity prices and the interest rate Of course, the Great War and its after effects exaggerated the rose markedly rise, but it would, on a more moderate scale than now appears, still have been there, and 1920 would still have been the turning point. That year, the writer believes from the evidence of the figures, commenced another period of stationary or falling factors the end of which cannot yet be fore-een, which would normally last, with a world working on the gold standard as before the War, until such time as the difference between the output and the demand for gold again permitted of a rapid increase in gold money per capita. This difference can be obtained only in two ways, i.e. by increased supply or lessened demand, or both-by new gold discoveries such as those of California and Australia or of the Rand, or by the industrial arts, India, and China moderating their require All that can be said on that subject at present is that there is no indication at present of new gold discoveries of importance, that the industrial arts as time goes on and with a normal world are likely to exact a greater toll as the pre War figures and rate of increase suggest, that India's demand prior to the War was growing rapidly, and that China, which is passing from the copper to the silver stage, should in time with increasing wealth progress towards the gold

stage, as India has done before it

12 These remarks are made largely from the pre War point of view, and as
though the War had changed nothing. Hence the importance of the qualification
"with a world working on the gold standard as before the War." The War has
for the time being altered the position, so that although the return to the previous
form of gold standard is proceeding only the United States Mexico, and the
Union of South Africa have a full gold stindard and in the world generally—
even in those countries—there is a tendency to centralise gold money as much as
possible, so as to make it more effective. How far these efforts will tend to
increase the influence of a proportionately reduced amount of gold money remains

to be seen

INCREASE OF GOLD NEEDED TO KEEP PACE WITH ECONOMIC DEVELOPMENT

13 Professor Gustav Cassel has argued that the gold supply is representated of all money, and that by comparing the increase in this supply between years at which commodity prices were at the same level one can arrive at the rate of increase necessary to meet the general economic development of the world and the kep prices stable. In his work, on "The Theory of Social Economy," Linglish edition, 1923, he says "The quantity of money is not rigorously marked off in relation to the total supply of gold. On the contrury, the gold prises from the non monetary supply to the monetary and back. Thus the monetary supply of gold at the time affords no objective cause for determining the value of money. To trace the general level of prices to objective causes is in

fact only possible when this general level is brought into connection with the total He then points out that bank notes and bank deposits and the upply of gold. rapidity of circulation of these and of money have to be taken into consideration, that if rapidity of circulation or paying capacity in the period per unit is assumed to be unchanged there are three variables i e the quantity or money the circulation of notes and the amount of deposits that these variables are not entirely independent since the amount of the notes and deposits is commonly regulated given a certain quantity of money by the terms on which banks make that the determination of the general level of prices might be traced to two factors 1e the terms of bank advances and the quantity of money in since under a gold standard the amount of money related to the total quantity of gold that errculation in circulation is fluctuations of the general level of prices are if the real exchange is not altered determined by the total quantity of gold and the terms of the bank advances as well as the effectiveness of the media of payment and after showing that the latter are not independent variables he comes to the conclusion that the general level of prices is directly proportional to the total quantity of gold. 427-430)

Consequently when we take the gold standard into consideration (we) cannot stop at the quantity of money but must go on to the whole quantity of gold in the world
The entire supply he takes at £490 000 000 £1 410 000 000 and £2 000 000 000 at the end of 1 00 1890 and 1910 respectively He selects Sauerbeck's Commodity Price Index as being the best index available of world conditions since it is carried back over a very long period and England is a Free The level of Sauerbeck's Wholesale I rices of Commodities was I rade country the same in 1850 1850 and 1310 and in the periods 1850 1910 as well as in 1850 18 6 and 1856 1310 there was an average annual rise of 279 per cent in the actual gold supply The increase of the gold supply during that period as a whole has clearly had no influence on the general level of prices and the increase whose ans creary man are marches are the gold supply necessitated by the general economic development (Pages 441-444) The increase of 28 per cent per annum we may call a normal increase for the period in question and the gold supply at any particular point of time in the period assuming a normal increase may be called the normal gold supply which he builds up by starting with £430 000 000 in 1850 and building forwards and backwards on a uniform annual As far as the changes in the seneral level of prices increase of 28 per cent in the period 1800-1910 may be generally traced to changes in the gold supply they may be ascribed entirely to the divergence of the actual gold supply from the normal (Pages 444 and 445)

gold supplies Professor Cassel's conclusions are shared by many economists and are in essence identical with those indicated by the writer in his Trade Cycles Chart (a recent edition of which was published in the Annual Financial and Commercial Review of "The Times" of February 10, 1923) and in various published articles

18 Professor Cassel's method of arriving at the annual increase in gold supplies required to meet the general economic development of the world and to keep prices stable is undoubtedly right, but the writer considers that it could be

applied to more appropriate figures

- 10 The Professor suggests that the quantity of gold money cannot be rigorously marked off from the total supply of gold, for gold passes from the non monetary uses and back again. But there is a constant absorption of new gold by industrial arts every year in addition to the old gold re used, and India's absorption, with only a very few unimportant exceptions (£800,000 in 1878, £2 200,000 in 1892, and £1,800,000 in 1894), is constant, as is plainly shown in Table I Prices should, accordingly, be affected not by monetary and non-monetary gold together but by gold money only. Professor Cassel might, possibly, have worked out his thesis on the basis of gold money only if he had known of continuous statistics calculated annually and covering the necessary period. Such exist, mainly in unpublished form, in the writer's annual figures of the World's Stock of Gold Money (excluding India, China, and Egypt), which run back to 1839.
- 20 The writer's figures differ from other estimates in that the Stock of Gold Money is assumed to be added to each year by the amount of the world's gold production after deducting the absorption in the industrial arts of Europe and America and the absorption of India China, and Egypt. The figures do not allow for wear and terr. This is considered to be negligible, since Professor Jevons, in the middle of the nineteenth century, showed it to be 0.457 per cent per annum for circulating coins only, while before the War money in circulation was one third of the whole. The calculations start with an assumed £200 000 000 in 1843 and though their base is so distant in time, they have so far met the necessary tests very fairly. The totals at five yearly intervals are given in Table I, which shows how the Stock has been built up. Other estimates, which have some times varied widely in the past and which are largely of a non continuous character have been generally based on the visible stock of the moment in the banks and public treasuries of the principal countries with an estimate of the gold in circulation. The following shows the correspondence between some of these estimates and those of the writer.

	-	Fstimate •	The writer	Difference
1848 1873 1890 1894 1894 1904 1910 1913	? Soetbeer US Mint (very incomplete) Soness "Wall Street Journal" US Mint "Wall Street Journal" US Mint Federal Reserve Board Bulletin US Mint (incomplete)	£ 120,000,000 219,000,000 675 000,000 860 000,000 948,000,000 1,270,000,000 1,358,000 000 1,598,000 000 1,950,000 000	£ 210,000,000 586 000 000 720,000 000 802 000 000 938 000 000 1,239,000 000 1,454,000,000 1,587 000 000 2,100,000 000	+ 67 % + 130 % + 8 % - 7 % + 19% - 2 % + 1 % - 1 % + 8 %

²¹ The writer sown attempts to check the totals by observation made on the same lines as those adopted in the other estimates resulted in the 1913 and 1924 figures given in Table V, the 1913 amount checking within about 1 per cent. The figures per capita for the World's Stock of Gold Money, shown in Table I, are based on the total population of the world (duly computed by the writer for the purpose on the basis of censuses and estimates), including the population of India and China. They should, perhaps, be based on the population of India and China they should, perhaps, be based on the population of the gold money using countries only, but this would involve too much labour would result in jerks and would be open to more errors of judgment. The figures per capita form an index of the growing Stock of Gold Money after allowing for increase of population.

Excluding India, China and Egypt, where they are specified, in order to make the comparison fairer

fact only possible when this general level is brought into connection with the total supply of gold He then points out that bank notes and bank deposits and the rapidity of circulation of these and of money have to be taken into consideration that it rapidity of circulation or paying capacity in the period per unit is assumed to be unchanged there are three variables ie the quantity of money the circulation of notes and the amount of deposits that these variables are not entirely independent since the amount of the notes and deposits is commonly regulated given a certain quantity of money by the terms on which banks make the determination of the general level of prices might be traced to two factors 1e the terms of bank advances and the quantity of money in circulation that since under a gold standard the amount of money related to the total quantity of gold in circulation is fluctuations of the general level of prices are if the real exchange is not altered determined by the total quantity of gold and the terms of the bank advances as well as the effectiveness of the media of payment and after showing that the latter are not independent variables he comes to the conclusion that the general level of prices is directly proportional to the total quantity of gold 428 430)

14 Consequently when we tall e the gold standard into consideration (we) cannot stop at the quantity of money but must go on to the whole quantity of The entire supply he takes at £490 000 000 £1 410 000 000 and £2550 000 000 at the end of 1850 1890 and 1910 respectively He selects Sauerbeck's Commodity Price Index as being the best index available of world conditions since it is carried back over a very long period and England is a Free The level of Sauerbeck's Wholesale Lines of Commodities was the same in 1850 1886 and 1910 and in the periods 1800 1910 as well as in 1850 1886 and 1886 1J10 there was an average annual rise of 2 79 per cent in the The increase of the gold supply during that period as 1 whole has clearly had no influence on the general level of prices and the increase whole has deady has been seen as the gold supply necessitated by the general economic development (Pages 441 444) The increase of 2.8 per cent per annum we may call a normal increase for the period in question and the gold supply at any particular point of time in the period assuming a normal increase supply at any paracona point or time in the period assuming a metaling with may be called the normal gold supply which he builds up by starting with £490 000 000 in 1850 and building forwards and backwards on a uniform unnual 2-200 to 0 000 in Loop and behavior and balance of a Same as the changes in the general level of prices in the period 1850 1910 may be generally traced to changes in the gold supply they may be ascribed entirely to the divergence of the actual gold supply from the normal (Pages 444 and 445).

15 He gives on page 448 a rather remarkable diagram showing the approximate agreement between Sauerbeck, a price index and the relative gold supply (ratio of the effective and the normal gold supply). The main cruise of the scular variations of the general price level less in the changes of the relative gold though it is also influenced by other factors is directly proportional to the relative gold though it is also influenced by other factors is directly proportional to the relative flags play. The general price level is also subject to unanti-variations but Lexis a total yearly loss of the total supply of 0.2 (Page 447). According to is done in Professor Cassel's figures) for the loss from wear and so an annual tenance of the general price level unchange [1] as far as the gold supply is concerned. (Pages 442 and 451)

16 These results refer musly to the period 1850 1910 and the evolution of the world fearnd for gold during that period. To apply these results to the furing the period in question. But we must point out that the demand develops as it has done the excentence of the Great War may materially modify our it is possible that after the consequence of the district of the consequence of the district of t

17 In distinguishing between secular variations and annual variations movements respectively) he attributes the main cause of secular variations to the changes in gold supplies the annual variations having no connection with

gold supplies Professor Cassel's conclusions are shared by many economists and are in essence identical with those indicated by the writer in his Trade Cycles Chart (a recent edition of which was published in the Annual Financial and Commercial Review of "The Times" of February 10, 1925) and in various published articles

18 Professor Cassel's method of arriving at the annual increase in gold supplies required to meet the general economic development of the world and to keep prices stable is undoubtedly right, but the writer considers that it could be

applied to more appropriate figures

- 19 The Professor suggests that the quantity of gold money cannot be rigorously marked off from the total supply of gold, for gold passes from the non monetary to monetary uses and back again. But there is a constant absorption of new gold by industrial arts every year in addition to the old gold re used, and India's absorption, with only a very few unimportant exceptions (£800,000 in 1875, £2 200,000 in 1892, and £1,800 000 in 1894), is constant, as is plainly shown in Table I Prices should, accordingly, be affected not by monetary and non monetary gold together but by gold money only Professor Cassel might, possibly, have worked out his thesis on the basis of gold money only if he had known of continuous statistics calculated annually and covering the necessary period. Such exist mainly in unpublished form in the writer's annual figures of the World's Stock of Gold Money (excluding India China, and Egypt), which run back to 1839.
- 20 The writer s figures differ from other estimates in that the Stock of Gold Money is assumed to be added to each year by the amount of the world's gold production after deducting the absorption in the industrial arts of Europe and America and the absorption of India China, and Egypt The figures do not allow for wear and tear This is considered to be negligible, since Professor Jevons, in the middle of the inneteenth century, showed it to be 0 4357 per cent was one third of the whole The calculations start with an assumed £200,000 000 in 1843 and though their base is so distant in time, they have so far met the necessary tests very furly. The totals at five yearly intervals are given in Table I which shows how the Stock has been built up. Other estimates, which have some times varied widely in the past and which are largely of a non continuous character have been generally breed on the visible stock of the moment in the boulks and public treasuries of the principal countries with an estimate of the gold in circulation. The following shows the correspondence between some of these estimates and those of the writer —

	Estimate *	The writer	Difference
1848 ? Soetheer 1873 US Mint (verv incomplete) 1890 Sness 1894 Wall Street Journal 1890 US Mint 1910 Wall Street Journal" 1910 US Mint 1911 US Mint 1924 US Mint (incomplete)	120 000 000 219 000 000 665 000 000 948 000,000 1,270,000,000 1,438 000 000 1,593 000 000 1 950,000 000	£ 210 000 000 556 000 000 720 000 000 802 000 000 958 000 000 1,731 000 000 1,751 000 000 1,557 000 000 2,100 000 000	+ (77) + 130/2 + 8/2 - 7/2 + 1% - 297 + 1% - 17/2 + 1%

²¹ The writer's own attempts to check the totals by observation made on the sime lines as those adopted in the other estimates resulted in the 1913 and 1924 figures given in Table Y, the 1913 amount checking within about 1 per cent. The figures per capita for the World's Stock of Gold Money, shown in Table I, are based on the total population of the world (duly computed by the writer for the purpose on the basis of censuses and estimates) including the population of India and China. They should perhaps be breed on the population of the gold money using countries only but this would involve too much labour would result in jerks and would be open to more errors of judgment. The figure-per capita form an index of the growing Stock of Gold Money after allowing for increase of population.

Facinding India, China and Fgypt, where they are specified, in order to make the comparison futer

22 Following Professor Cussel's method the writer has taken years when commodity prices (Sauerbeck——Statist index) were at the same level and compared them with the increasing Stock of Gold Mone; Phose years are not quite the same as those selected by the Professor but consist of two sets—1851 1884 1907 when the index on a three years (centred) average was 77 on each occasion (90 on the basis of 1913 100) and 1844 1880 1913 when the index similarly averaged was 85 (190 on the basis of 1913 100). The periods covered are 56 years in the first case and 69 years in the second The results fitted to the Stock of Gold Money curve are—

(Increases per cent per annum compound)

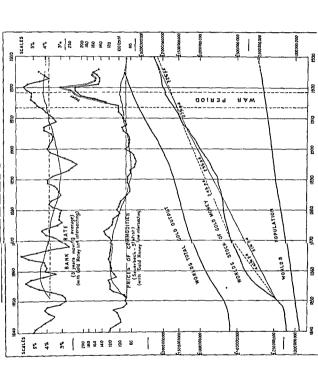
	(het arenam			
	1851 1884 (33 years)	1834 1307 (3 ye. rs)	185 1907 (56 years)	1814 1880 (36 years)	1850–1913 (34 years)	1841 1913 (69 years)
Stock of Goll Money	3 09	o 91	3 03	3 29	9 6	3 04
World a populat on	0 85	0.83	0 85	0 84	0 87	0.95
Difference	2 94	9 08	° 18	45	1 89	» 19

23 How far the advance in the Stool of Gold Money exceeded the growth of solution is indicated in the table. The Stock of Gold Money rate of increase shows a certain amount of slowing down and this is just what one would expect if Gold Money has increased in efficiency with time as is no doubt the case. The rates given are not those of the economic development of the world but the increases in Gold Money necessary to maintain that rate of development. If adequate statistics of world economic factors were analiable they would doubtless show higher percentage increases than shown and as an example the world is pig iron output (not a money factor) increased 4.59 per cent, and 4.92 per cent for the two sections of the period ISs1 1907 and 4.76 per cent, and 4.23 per cent for the two sections of the period ISs1 1907 and 4.76 per cent, and 4.23 per cent.

The attached chart is drawn on a uniform logarithmic or ratio scale so as to give equal rates of increase precisely the same slope and to enable the various It gives the grow ng Stock of Gold Money curves to be directly compared showing clearly the impetus given by the Californian and Australian discoveries of 1848 1851 and by the discovery of the Rand in 1886 together with the slacken ing off which subsequently occurred in each case The straight lines joining portions of this curve indicate that the rates of increase were different at different times (and it would of course show other differences if other portions of the curve were taken instead) The chart also gives the Sauerbeck- Statist index of Wholesale Prices of Commodities and the Bank of England Rate for Discount The latter is given on a three years moving average to partly remove the often violent annual variations which are recorded in the writer's Trude Cycles Through the Commodity Price curve and also through that of the Bank Rate are drawn lines slowing the Stock of Gold Mone; for direct comparison In drawing such curves it has naturally been necessary to appropriately slope the Stock of Gold Money curve so as to make it move about a horizontal level and this has been done by druwing such lines as much above or below the hori zontal base chosen as the Stock of Gold Money curve is above or below strught Zonial 1884 1894 1907 and 1907 1928 in lines (shown on the chart) drawn between 1851 1884 1884 1907 and 1907 1928 in the case of Commodity Prices and between 1851 1870 1870 1909 and 1909 1932 the case of commanty fraces and between ears that for love and the Bank Rate 1 between years when Prices and the Bank Rate fame years average) respectively stood at the same level except for the current periods for which a drop of 0.2 per cent per annum on it e previous rate of increase is assumed as a result of the previous figures. The fit between Prices and Prices from the comparison line being munly those due to the trade cycle variations which are superimposed on the fundamental movements or trend produced by the varying Stock of Gold Money In the case of the Bank Rute the fit is as good and the trade cycle fluctuations swing the curve almost equally from side to side of the Gold Money line. The writer's attempt to carry back to 1800 the correspondence between the total gold supply and Prices of Commodities has

met with very indifferent results

2. The curves are continued into the future but in view of the after in fluences of the War the result must be subject to a number of uncertuinties such especially as the doubt as to the period when normality in employment pro



duction trade and commerce will be reached and the speed and nature of the teturn to the gold standard after its abundonment during the War by every country except the United States of America. On the chart the stock of gold money has been extended from 1924 to 1939 on the basis indicated in the previous section of this statement and the corresponding money lines have been extended through the commodity prices and B ml. Rate curves from 1907 and 1909 respectively to 1930 on the method already mentioned

- 26 The first point to be noticed is the character of the stock of gold money curve, which rose strongly from 1849 to 1861 while between 1861 to 1918 the rate of increase was sensibly lessened and from 1891 to 1918 the rise was again prominent. During these periods (subject to a lag of some years) prices of commodities and the Brull Rate rose fell and rose respectively as regards their general trend and there is no doubt that but for the War the general advance in prices and the Brull Rate which commenced about 1896 would have lasted until about 1920. Since 1918 the rate of increase in the gold money stock has sensibly lessened as it did in the period 1861 1891 and this state of affairs seems likely to continue for some years to come so that it any rate for another ten years to come there should (apart from the War) have been an appreciable fall in prices and a decline to a small extent in the average Brull Rate. Allowing for a lag in the operation of the influence of the stock of gold money and assuming that the chart has been correctly drawn prices should have risen (on the basis of 1913 ~ 100) from 80 to 1890 to 100 at 1920 and then should have fallen to 90 at 1930 and 85 at 1935 and the Brulk Rate. Allower cert at 1202 should have remained more or less it that level afterwards considering of course only the matter of trend and not trade cycle variations.
- 27 That prices will actually reach an index of 90 by 1930 is too much to expect as the influence of the War will not have ceased by then or probably for some time afterwards but already they have dropped from the high level of 230 (gold) for 1919 1920 to about 140 in 1922 1923 with a recovery to 158 for 1923 while the present figure is 148. It would seem evident from a study of the chart that they may go a considerable way towards 90 in the next few years. Generally it seems that unless strict economy in the use of gold is exercised the tiend of prices must be downward for a long time to come. The Bank Rate should apparently oscillate about 4 per cent with if anything a declining tendency.
- 28 As previously shown Professor Cassel applies his required annual rate of increase of 28 per cent to the aggregate gold production and at the Brussels Cinference of 1920 he gave £100 000 000 as the annual gold production then nerves in to meet the economic development of the world and maintain the stability of prices. The amount increase of course annually at 28 per cent compound interest and the £100 000 000 needed in 1920 would become £132 000 000 per annum in 1930 and £174 000 000 in 1940. These figures compare with an annual gold production which is at present £80 000 000 per annum has never exceeded £96 400 000 and his averaged £74 000 000 for the last eight years.
- 29 Using the different figures of the present statement and in view of the rate of increase in the stock of gold money having been 3 09 per cent per unium in the period 1851 1884 and falling to 291 per cent in 1884 1907 owing to the increasing efficiency of gold money the rate of increase it present applicable may be taken at the 27 per cent rate already suggested. In 1907 the stock of gold money was £1 289 000 000 and the following compares the amount at which this should increase to keep pace with the world's economic development with the actual or anticipated stocl.

	T		l	Г	or five year perio	đs
	S ock required	Actual Stock	D fference	Increase a Stock require?	Increase in Actual Stock	D fference
1910 1915 1920 1925 1930 1935	1 393 000 000 1 592 000 000 1 819 000 000 2 079 000 000 2 377 000 000 2 717 000 000	£ 1 454 000 000 1 736 000 000 1 977 000 000 2 137 000 000 ** 305 070 000 *2 425 000 000	+ 61 000 000 +144 000 000 +158 000 000 + 58 000 000 - 72 006 000 -29° 000 000		\$2 000 000 241 000 000 160 000 000 *168 000 000 *120 000 000	£ + 83 000 000 + 14 000 000 -100 000 000 -130 000 000 -20 000 000

The position speaks for itself. During the 10 years 1926 35 an average of £64 900 000 per annum of addition to the gold money stock is required and the estimate based on the Indian monetary system as at present falls short of this by about 55 per cent. The past five years have added an average of £32 000 000 per annum and the estimate for the next ten years suggests an average rather less per annum and the estimate for the next ten years suggests an average rather less tis use as a commodity and in respect of its use as a commodity and in respect of its use as a commodity and in respect of its use as a commodity and in respect of its use as a commodity and in respect of its use as a commodity and in respect of its use as a gold property. Unless that economy is exercised we have to look forward to a prolonged period of steadily falling commodity prices and of a diminishing degree of prosperity and economic development throughout the cardised world including India.

30 The amount of gold required to leep pace with the economic progress of Great Britain caunot be sharply distinguished from that required for the world What affects one will affect the other and commodity prices are to a large extent

world prices

II -SII VER

THE EFFECT OF THE PRICE OF SILVER ON THE PRODUCTION OF THE METAL

31 There are striking contrasts in the minner of occurrence and winning of bold and silver which (from an economic point of view) may be summarised thus —

Gold

Almost always native (chemically free) Usually associated with sul phides &c of other metals

Largely found in alluvirl in banket and in lodes

Mostly won for itself alone

Subject to sudden increases of output owing to alluvial discoveries and such discoveries as that of the Rand.

British Empire produces 70 per cent of world s output

America (including Canada) produces 30 per cent of world's output

Output at its highest (1915) 196 per cent above 1893

Output for 1925 147 per cent above

Silver

Always chemically combined with sulphur and other elements except when it occurs native in oxidised deposits near the surface

Never (practically) found in illuvial or in bribket and almost entirely in lodes and other non alluvial ore bodies

Largele son with other metals often

Not being found in alluvial there is less hability to sudden increase Cobalt was exceptional and its production has already fallen to about

one third of the maximum of 1911 British Empire produces 15 per cent of world's output

America (including Canada) produces 85 per cent of world's output

Output at its highest (1923) 50 per cent above 1893

Output for 1925 42 per cent above 1893

Silver being largely won in association with other metrils it becomes desirrible for the purpose of this enquiry to ascertain how fur it is won for its own saile and how far as an accessory or bye product. Official figures are obtainable only in respect of the United States and Canada which represent shout 35 per cent of the production and in the case of the United States it is not possible to separate between silver or silver gold ores where silver is the more valuable metal and gold-silver ores where the gold contents are the more valuable metal and gold-silver ores where the gold contents are the more valuable metal in the two classes for one shades insensibly into the other. Where silver is won in conjunction with base metals—copper lead zinc and (in Bolivit) im—it can be sharply separated because such ores are always smelted while where silver with some chemical treatment are almost evolusively employed were for Mexico which is as important a producer as the United States and Canada combined the necessary data for making a separation between the various classes cannot be obtained from official statistics it has to be largely guessed

- 32 As regards the United States the proportions of silver obtained from dry stateous ores and from base metal ores according to the United States Geological Survey were 278 per cent and 722 per cent respectively in 1900 249 per cent and 751 per cent in 1905 404 per cent and 596 per cent in 1910 and 395 per cent and 605 per cent in 1905 404 per cent and 596 per cent in 1910 and 681 per cent and 605 per cent in 1913 while in 1924 they were 310 per cent and 681 per cent. But it is better to observe the quantities rither than these percentiges, and then it is found that from 1900 to 1924 except during the years around the end of the war the output from base metal ores was steady throughout at between 41 000 000 and 45 000 000 fine ozs per annum any variation in the country s total production which during that period moved between 52 000 000 and 75 000 000 fine ozs being tracerble to dry subcous ores. This steadmess and lack of increase in the output of silver from base metal ores is the more remarkable because the United States production of outper zinc and lead has increased from two to four and a half times since 1900. Such a result is doubtless due partly to some of the more important copper mines carrying little or no silver and partly to the proportion of silver in the base metal ores decreasing with time
- Taking the year 1924 one may venture on the following estimate of the 'Silver ores in the table are to be con origin of the world's silver output sidered as those containing either silver alone or more usually silver and gold ores where the silver constituent is the most important in value (i.e. ores which are won mainly for the sake of their silver content) "gold ores are those con trining gold and silver where the value of the former metal preponderates (1e ores won mainly for the sake of their gold content) and base metal ores those where copper lead zine and tin or one or more of them are associated with silver and gold and where the value of the base metals preponderates Often of course silver or gold ores contain base metals but in quantity insuffi cient to justify smelting and in such case they are treated in quartz mills for their content of precious metals only and are then classed as silver ores In Mexico a large proportion of the smelter production—the "gold ores writer tal es it at as much as 20 000 000 ors -comes from material high in silver and low in lead or copper and this is accordingly classed among silver ores

		Dry a liceous ore		Total
	S 1 er ores	Cold ores	Base metal eres	1 roduct on
Mexic) United States Canada Central and South America Ocean a Avia 1 grope Africa	Fine oss 50 0 0 000 = 51 % 10 0 000 = 52 % 12 000 000 = 60 % 6 000 000 = 21 % 1 000 000 = 9 % 	1 nc ors c 000 000 == 7/ 2 nc 000 000 == 37/ 3 nc 00 000 == 15%/ 1 000 000 == 97/ 1 000 000 == 27/ 2 000 000 == 207/ 2 000 000 == 77/	~000 000 ≈ 18%	P ne ozs 92 000 000 65 000 000 20 900 000 11 000 000 11 000 000 9 000 000 9 000 000 239 000 000

The figures are uncertain as may be gathered by comparison with other estimates -

34 The estimate now made indicates that to the extent of about two-thirds or in conjunction with 30d If a substantial fall in the price of silver were to take place any consequent curtailment of the output would hardly affect the base metal product at all would have more but still little influence on the production from 30d ores and would have more but still little influence on the production from 30d ores and would have incredented feet on silver or the upon 37 per cent of the silver production. Even here the effect would be smaller than might at first sight leexpected because in case where the profit is sufficiently large to leave a favour able balance at the lower price level production would continue and might even

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Report on ti World's Iroduction of Silver to the Indian Currency Committee of 1919
 Ounces adde I

be stimulated in the attempt to maintain the aggregate profit and in cases where the profit was wiped out the mines would struggle to continue their production as long as possible. The latter remark applies to existing mines but of course the reduction in price would tend to strongly discourage the opining up of new ones. It must also be remembered that mining is not subject to the usual rules by ones. It must also be remembered that mining is not subject to the usual rules when the glamour associated with it so that a mine is issually not shut down when it becomes unprofitable to work it until necessity in the shape of refusal to keep up the supply of further funds compole constitution of operations

- 35 During the period since 1890 the output averaged over periods of seven to ten years has been stordy at about 0.11 fine oz per lead of the world spopulation while from 1871 to 1817—when the price of silver varied extremely—the aggregate value of the annual production moved only between 3.2d and 3.7d per head
- 36 From 1835 to a iew years before the War the curres of the production the price were complementary (i.e. moved oppositely in relation to each other) to a remarkable degree a steady or slightly rising output accompanying a steady price whether at 65d or 30d per fine or while the great advance in production from 1874 to 1893 accompanied the slump from the higher level to the lower. In recent years (1919–1922) in the United States with \$1 per fine or or more paid for domestic aliver the output of the United States was the lowest since 1910 at an inverage of 55 000 000 or per annum. Thus there are indications that a high output is consistent with a low price and a low output with a lngh price. In the years 1917–1920 when the London quotation of silver was exceptionally exaggerated the output was 17½ per cent below the level of 1910–1912 and since with a lower quotation it has advanced beyond the pre war level.
- 37. While there was a very leve, fall in price down to the 38 67 per fine or of 1893, the relapse after that date to 20 07 in 1902 could be calculated to be a radily less severe in its effect on the integral of mining profits but for the whole of this interval and for four years thereafter—ie 14 years in all—the worlds production kept remarkibly stend; the annual amounts every arrying more than 9 000 000 oz from the average of 160 000 000 oz and showing no tenderey either to rise of fall. During this period the important eyanide process was introduced (from about 1895) and generally interested which no doubt had its effect in main taking the output and preventing the disapperrince of mining profits
- In 1911 the output of Mexico was 79 000 000 fine oz and it fell to an average of 35 000 000 oz for 1914 1917 owing to the revolutionary troubles in that country which synchronised with-but were not due to-the Great War For the ten years 1912 1921 after which the annual rate recovered to 81 000 000 oz the country's production was 546 000 000 oz while if it had continued at the country's production it would have been 790 000 000 oz so that its output was reduced 244 000 000 oz in this period. That amount added to the world's actual production of 1 881 000 000 oz would have made it 2 125 000 000 oz or 13 per cent more and in such case the shortage in 1918—relieved by the United States Government's sales under the Pittman Act of an amount approximately equal to this ten years shortage—might not have been felt so acutely. It is difficult how ever to say whether Mexico's failure to contribute its share to the world's output caused a rise in the price of silver because of the conditions produced by the War But the object of the present remarks is to indicate that in the past the output has been lurgely-in the aggregate and over long periods-independent of price and that a considerable increase in production may occur in spite of falling prices and vice versa. The point at present being considered is not the effect of supply (and demand) upon prices but the effect of prices on supply (production) which is a
- 39 The conclusion reached is that a reduction of price unless exceptionally severe would not necessarily have any but a gradual effect on production or at least that the effect would be considerably less than might be expected if judged by standards applied to other commodities. This idea is based in a variety of points dealt with observe chief among which are that silver is mainly won in association with other metals that ordinarily the production increases with time not necessarily as the result of my discoveries more than replicancy chainted mines but as the result of improved metallury, that the past has not indicated that a falling price necessarily reduces production and that there is m any case a considerable mount of inertia or lag in movements from the nature of the case.

THE RELATION BETWEEN THE DEMAND FOR AND THE SUPPLY OF SHAPER

It may be generally said that estimates forecasting the future of silver are usually unduly optimistic owing more to overrating the probable demand than to understating the probable production As examples the following may be given The first is extracted from an article by Mr Moreton Frewen in The Nineteenth Century for February 1919 quoting figures stated to have been supplied by the Director of the United States Mint to Governor Boyd with the phraseology there used and the second is from The Mineral Industry for 1918 quoted by Professors Carpenter and Cullis in their Report on the World's Production of to the Indian Currency Committee of 1919 but there attributed to a different source -

dincrens source —		
A 30 years forecast for silver 1918-48 Annual demand Silver at 5s per oz		Mineial
Not alver to heard to Today and I believe to		Industry
Net silver to liquidate India s annual balance of		1918
trade (£70 000 000 or Rs 2 per capita) after	0z	0.
defraying her home charges	250 000 000	150 000 000
For China Hongkong Malaysia and the Phil		
linines	50 000 000	40 000 000
World's silversmiths demand on pre War scale	120 000 000	75 000 000
For subsidiary currencies Europe and America	70 000 000	60 000 000
New silver for the currency requirements of the		
Nigerias West Africa German and British		
East Africa	100 000 000	25 000 000
For the reimbursement of the Bland dollars		
(Pittman Act) for say eight years	50 000 000	
7		
Total demand	640 000 000	350 000 000
Present world production from the mines esti		
mate of Director of the Mint for 1916 17	157 000 000	
In tre or Durcesor or she print for 1910 11	20, 000 000	

World a deficit say

483 000 000

Table II attacked with the complementary Tables III and IV show the actual supply and demand over a long period of time in quinquennial and thirty year periods The figures from the discovery of America in 1493 do vn to 1851 (their division under the various heads being guessed) are inserted in an attemp at completeness Table III shows how persistently India has absorbed silver and with more regularity than in the case of gold The preference for gold has become pronounced in the last 30 years and the proportions (in value) of 70 per cent of silver and 30 per cent of gold in the 60 years to 1894 changed to 45 per cent and 55 per cent respectively in the period which has since elapsed Nevertheless the absorption of silver in the three successive periods of 30 years each to 1894 was 493 000 000 oz 783 000 000 oz and 1 930 000 000 oz The rate of increase seems at first sight to have been affected by the reduction in price. This is no doubt true as regards private imports but including Government purchases for comage the prices annually from 1900 and 1917 moved largely according to the size of the Indian importation the years of heaviest absorption being usually those of highest price and tice versa Indeed in the 11 years of Government purch ases the annual average price varied between 24 7d and 40 9d per standard ounce while during the 7 years when private imports alone took place the annual average price moved only between 23 7d and 20 3d -2 difference due to the Government's considered practice of only buying when requirements could be clearly foreseen

42 Private and Government net imports of silver since a year after the clos

	Pr vate	Government	Total
5 years to 1899-00 1901 0 1900 10 1914 15 1919 90 19 4 95	Fine ors 1°5 000 000 155 000 000 °30 000 000 °01 000 000 °7 000 000 357 000 000	F e ozs 109 000 000 17° 000 000 81 00 1000 467 000 000 3 000 000	1°25,000 000 1°25,000 000 1°25,000 000 1°25,000 000 1°25,000 000 1°25,000 000 1°25,000 000
	1 098 000 000	832,000 000	1 930 000 000
Annual averages 10 years to 1904 05 1914 15 1924 25	99 300 000 43 100 000 39 100 000	10 900 00 0 25,300 000 47 00 000	39 900 000 65 400 000 85 400 000

The private import figures have of course been severely affected in the last ten years—first by the prohibition of silver imports in September 1917, and then by the removal of import restrictions and abolition of the 4d import duty in February 1920. During the last 5 year period an average of 71,000,000 oz per annum was imported privately, but this was exceptional as it immediately followed two and a half years of prohibition of imports and the cancellation of the import duty. In view of this and the earlier figures it would seem that, assuming Indian conditions, remain unchanged, the average private demand may well be 50,000,000 oz rising to 70,000,000 oz per annum, to which the requirements for coinage, doubtless on a reduced scale as compared with the average of the last 20 years and requiring say 30,000,000 oz, must be added

- 43 Chma's demand is more difficult to estimate, though smaller figures come of question. It absorption according to the published Customs figures given in Table IV (which are probably much below the mark for reasons referred to in the footnote to that table) varies exceedingly, and it has taken as much as 113,000,000 fine or in a pear—the abnormal year 1920. Taking the seven quinquennia covering the period 1899 1924 the quantity figures as judged by the London price are 31,000,000 fine or 5,750,000,000 or z, then an out turn of 29,000 000 or 2 of 1920,000,000 or 3, 13000,000 or 2, 13
 - 44. The industrial arts before the war, as in the case of gold, took an increas in amount of silver, in addition to old silver re utilised. Every fire years from 1875 to 1914 there was an appreciable increase, but since the war there has been a marked decline, which is probably only temporary. The more recent figures for new silver are estimated as follows, but for the last 10 years especially are very approximate—

<u></u>	United States	Rest of World (excluding India and China)	Total
5 years to 1°04 n 1°07 - 1914 - 1919 n 1924	Fine ozs, 7>0-0,000 101,000,000 120,000,000 114 0,0,00 132,000,000	Fine ozs 180 000 000 20%,000,000 240,000,000 136,000,000 113,000,000	Fine oza 255,000,000 310 000,000 360 000,000 250,000 000 215,000,000

The United States before the War took about a third of the total and its demand, after being temporarily checked, is again growing, the highest figure so far reached being 31,300,000 zo in 1922. The rest of the world has considerably abated its needs and its recovery will be slower. The industrial ab-orption during the next 10 years will probably be 60,000,000 to 50,000,000 oz annually.

45 The requirements for coinage for the rest of the world are very difficult to estimate for the figures very widely. In a few years to 1923, Europe has absorbed nothing and indeed added to the supply, first by Continental hoarding and realisation, and latterly by rea-on of the debasement of British coin, but judging by pre war standards it should need 25,000,000 2, rising to 33,000,000 a year, and the amount may well be considerably more as a result of Continental re monetisation. America—mainly the United States and Mexico, the latter of which has recently been exceptionally coining at the rate of 10,000,000 oz. per annum—should need 15,000,000 oz a year. Africa has absorbed large amounts, but in recent years has disorged. It may be set down for 5 one orge amounts,

The production of silver in the next ten years-given no surprises with effects similar to the Cobalt discoveries or the Mexican revolution-may perhaps be gruged from the trend of recent years, and may be set down at -

	1925 Output Fine oz	Possible 1935 Output Fine oz
Mexico	89,000,000	105,000,000
United States	66,000,000	75,000,000
Central and South America	27,000,000	
		30,000,000 to 40,000,000
Canada	20,000,000	20,000,000 to 30,000,000
Australia	11,000,000	5,000,000 to 10,000,000
Rest of the World	27,000,000	25,000,000 to 40,000,000
Total annual production	240,000,000	260,000,000 to 300,000,000
The consumption already sug		10 % 10 3
	10) years, 1926 1935
1. 1. 4. 1. 4	40.00	Fine oz
Industrial arts	60,00	00,000 to 80,000,000
India		
Private imports	50.00	00,000 to 70,000,000
Comage (average)		30.000,000
China	30,00	00,000 to 50,000,000

Lotal expected annual consumption

15,000,000 5,000,000 15,000 000 230,000,000 to 300,000,000

25,000,000 to 35,000,000

Probably the dem ind will on the whole be a growing one, and something near the lower of the limits mentioned may be held to apply at the beginning of the period and something near the higher at the end of it

Thus the position at the beginning and end of the period may be viewed

as follows-

Comage Lurope.

America

Rest of Asia

Africa.

310110	1926 Fine oz	1935 Fine oz
Production Consumption	240,000,000 210 000,000	280,000 000 280 000 000
Over or under production	Nıl	Nıl

The demand must in the event be equal to the supply, and the price of silver will be adjusted to make it so

THE EFFECT ON THE PRICE OF SILVER OF REALISING 20 CRORES OF RUPEES ANNUALLY

- The proposal to sell 65 700,000 fine or annually for ten years necessarily involves a discontinuance of the use of new silver for Indian counge amount therefore is in effect about 100,000 000 fine oz yearly
- In the previous section the writer has assumed the probable annual out put of silver for the next 10 years, with India conditions unchanged it in average of about 265 000,000 or, and has also tentured the opinion that to a large extent the output is independent of price, as for the most part silver is won with other metals. Postulating a material reduction in price the expected output might be reduced by 35,000 000 oz to 230 000 000 or per annum, but the sale of the 6-700 000 or would in effect add that amount to the production ruising it to say 300 000,000 oz yearly. Demand and supply would be equal and cheaper silver would stimulate the consumption of China and the industrial arts, while it would hardly affect comage in the rest of the world probably also stimulate the private demand of India, unless the degrading of

the rupes caused a lack of faith in silver The position might change as follows, taking annu'il averages for the ten years —

	From	То	Increase
India Private imports China Industrial Arts	Fine oz 60 000 000 40 000 000 70 000 000	I ine oz 80 000 000 55,000 000 100 000 000	33 % 38 % 43 %
Demand India Coinage Coinage of rest of the World	170 000 000 30,000 000 65,000 000	235,000 000 Nil 65 000,000	38% Nil
	265 000,000	300,000,000	13%

Thus supplies would be increased by 13 per cent, but in order to absorb them those who have the choice of buying would (unless silver were to cense to be a marketable commodity) be compelled to increase their takings by an average of 38 per cent. This would mean a profound change in the position and it could not be effected suddenly and must take time. The more quickly it were applied the wilder would be the variations in the price of silver and the effect on production

51 In a previous section of this statement attention has been called to the fact that the fall in the price of silver following its virtual demonetization in Germany in 1871 and the closing of the Indian mints in 1893 did not prevent a very large interace in the production taking place and that the curves of the production and the price were complementary (i.e., moved oppositely in relation to each other) to a remarkable degree. This of course, suggests that if the curves were entirely complementary the aggregate value of the annual production would remain at the same level. How in this is the case is indicated in Table II, which shows that it varied little in the 20 years before the War As a matter of fact, from 1894 to 1911 the annual values of the output only moved between \$17,700,000 and \$25,100,000, a variation of not more than 18 per cent from the mean, the values slightly increasing with time. This phenomenon is allogether contrary to experience in regard to other metal commodities, as is shown in the following table. The period covered is the 20 years 1893 1913, split in the middle, and three year (centred) averages are used in order to cancel to some extent the distorting effect of trade cycle movements. Index numbers are placed below each figure.

l		1894			1903		1912			
	Output	Price	Value	Output	Price	Value	Output	Price	Value	
r	Long tons 320,000,000 100	£45 1 100	£14,800 000 100	Long tone 587,000 000 183	£58 2 126	£31,100 000 231	Long tons 946 000,000 295	£69 0 150	£65,300,0x0 442	
	72 000 1(0	£72 2 100	£5,200 000 100	95 000 132	£126 0 174	£12,000,000 230	118,000 164	£186 0 258	£22,000,000 423	
	386,000 000 100	£15 8 100	£6,100,000 100	571 000 000 148	£20 6 130	£11,800,000 193	945,000,000 245	£24 7 156	£23,300 000 382	
!	619,000 000 100	£10 2 100	£6,300 000 100	905,000,000 146	£11 6 114	£10,500 000 167	1,166,000,000 189	£16 8	£19,600 000 312	
	Fine oz 166,000 000 100	Fine 34 1d 100	£23 600 000 100	Fine oz 165,000,000 99	Fine 27 10 80	£18 600,000 79	Fine oz 222 000 000 134	Fine 28 9d 85	£26,800 000	
d s lation	1,	472 (J.O.) 100	200	1	573,000,0	000		717 000 0		

52 The more the output of the base metals was advanced in relation to the growth of population, the less was the rate of advance in price, though that advance was nevertheless substantial, and the value of the production rose enor mously in the period in all cases, i.e., the metals became an increasing necessity of different with siter, which is to a large extent a livury commodity, whose value, considering the metal as being a form of realth, may easily be destroated.

if one discounts the salver figures of the 1893 1903 period, in view of the effect of the closing of the Indian mints to private comage the fact remains that ten years after that closing—for it took a long time for the demand to readjust itself to the shock—the value of the production had not risen as in the case of base metals, or indeed risen at all, though it increased afterwirds till the War

- 53 The figures of the years 1914 1922 are utterly unrepresentative of normal conditions, but it happens that the fairly well defined trend of the production value between 1902 and 1913 subject to trade cycle fluctuations was represented by a rising straight line, which, if extended through the War and after War period, would pass through the £33,000,000 to £34,500,000 (gold) values of 1923, 1924 and 1925 and would show a value of £38,000 000 at 1930 and of £41,000 000 at 1935 With a production of say, 260,000,000 oz in 1930 and of 280,000 000 oz in 1935 these values would mean prices of \$36 per fine oz at both 1930 and 1935, given that Indian conditions remained unchanged According to the first table above Indian private importers. Chura, and the industrial arts if Indian conditions remained unchanged would have been expected to pay 35d per fine oz for 170,000,000 oz or £24,800 000 per annum, and if it is assumed they were willing to pay that sum for the 235 000 000 oz they would be asked to take (ie that the price were merely proportion tely reduced), it would mean a price of 253d per fine oz or 34 dp or standard oz
- 54 This assumes that the rising trend of the value of the production continued uninterruptedly through the War and after War years or could be picked up at its normal point now One has however, to remember—
 - (1) That as shown in the "Gold" section of this statement, the trend of commodity prices and economic factors generally should, quite apart from the War and the changes it has brought about, have continued until 1920 and then have turned downward or fittened
 - (2) The effect on the silver price of events comparable to the suggested policy, such as the virtual demonstristion of silver by Germany in 1871 and the closing of the Indian mints to private counge in 1893
 - (3) The very demoralising consequences to the market of having this additional silver hanging over it for ten years
 - (4) The possibility that the people of India would lose faith in silver as a result of the degradation of the rupee and consequently decrease instead of increase the private imports
 - (5) That much would depend not merely on the Government's action as regards silver but also on its policy as regards gold. If that were in the direction of introducing a gold currency it would largely augment the already excessive demand for a metal that threatens to be increasingly short supply and the prolonged fall in prices generally which from other considerations has been assumed would be considerably accentuated. This would, of course have its effect on the price of silver.

In view of these considerations it would be bold to expect an average price of 24d per standard ounce to be secured

TABLE I -CONSUMPTION OF THP WORLD'S GOLD SUPPLY, AND WORLD'S STOCK OF GOLD MONEY

(In millions of pounds sterling at 84/114 per fine ounce)

		BOL	The Committee of the Co			
	D'8 FION (0)	ncrease	,	11%%	1	2%
	WORLD'S POPULATION (*)	Milhons Increase	840 940 940 940 940 940 940 940 940 940 9	1,12,2,3	,	2,010
	STOCK OF GOLD MONFY (9)	Per head	5.14 5.14 5.14 5.17 5.17 5.11 11.16	554 101 <i>d</i> 131 <i>d</i> 264 <i>d</i>	1	272d
	F Gorn	Іпстевав	x = 48444 c 8 4 x 8 c 6 c 4 8 c 7 c 8 c 7 c 8 c 8 c 8 c 8 c 8 c 8 c	162%	ı	%%
ugs)	Srock	Total	196 196 201 219 219 219 416 416 416 416 639 639 663 663 1103 1136 11400 11400 1165 1193 1193 1193 1193 1193 1193 1193 119	196 476 801 2 100	1	2 275
Proportion of current output consumed as additional figures under first five headings	в бого	Іпстевне	30	62% 106%	ı	%01-
ler first)	WORLD'S GOLD OUTPUT	Total	448 441 128 441 128 44 45 65 65 65 65 65 65 65 65 65 65 65 65 65	2 248 2 248 2 248	4,00	395
ures und	BALANCE	AS MONEY	818282222233333333333333333333333333333	(35/ 44%/ 58%/	25%	35%
tional fig	BAL	N 8V	(136) 101 101 101 101 101 101 101 101 101 10	(14.) 25.0 1,299	2 100	175
as addi	Money Dusces	Oran I	8555289282828345488 5552828282828345488	38.88 4.88% 5.88%	48%	65%
onsumed	L L		8244652525252525253 8888888888888888888888888	(368) 173 410 949	1,900	220
output c	NA A	EGYPT '	5 +04~coccocc	(% (% (%) (%) (%)	3%	%*
current	CHIN	EG	88 re e e e e e e e e e e e e e e e e e	§~#8	106	15
retion of	•	LADIA C	8452453822855555555555555555555555555555	62484 %%%%	14%	30%
(Prop	·		800000000000000000000000000000000000000	83258	553	120
		INDUSTRIAL	82864488883844888888 620000000000000000000000000000000	25.25.25 5.25.25 5.25.25	31%	31%
	_	INDUS	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(280) 108 315 538	1,241	110
			100 0 000 000 000 000 000 000 000 000 0	19. " 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1		2000

"et for Fasse to March 21st dillorung place construction of a Mint for 1830-1,114, the other figures being approximated by the writer from 1879 only and Chan from 1830 only (acropit for the gress of the first into, plas, in the case of the latter, the country's own production to of far world. For the case of the latter, the country's own production to of far world both great the plants only a Minney' column. Excitating India Chana and Egrpi. The per heal figures (in penc) detailed by the design of the world and of period.

The per head figures (in pence) based on the estimated

O Figures divided roughly at a guess, m order to give totals from the discovery of America ?? A rough forecast. Not actual figures

(In millions of fine ounces)

(Pronouten of ourset outsit consumed as additional hours under first me bearings)

	APPENDIX 82		
Chronology	hos Neval atter incoveres 1864 is the Uson former 1867 develope gold stand of 1871 Germany adopts gold stand of 1871 Germany adopts gold stand of 1870 the stand stand of the stand of 1870 the stand of the stand of 1870 the stand of the stand of the stand 1870 the stand of the		
 	1859 1865 1871 1871 1878 1878 1890 1890 1893 1593		
LONDON VALUE OF PRICE PRODUCTION terfine or £	11.215 000 000 27 000 000 35 000 000 35 000 000 41 000 000 000 41 000 000 000 41 000 000 000 41 000 000 000 41 000 000 41 000 000 41 000 000 41 000 000 41 000 000 41	1,215 000,000 222,000,000 557 000 000 7% 000 000	2,790 000,000
PUT PRICE	22222222222222222222222222222222222222	65 5d 52 67 31 0d	7× 67
WORLD & " OURPUT	1122-13-11-115-115-1	212%	ı
Work OUF	1.020 1.150 1.150 1.150 1.150 1.150 1.020	1 LK1 2 5.53 5 6.23	13-457
CF OF	\$242444 \$242444 \$242444 \$24444 \$24444 \$24444 \$24444 \$24444 \$2444 \$	51152 %25%	37%
BAI ANCF OF OUTPUT	C	1,531 1,177 1,632	1.273
FOTAL DF)	\$29.8%28205332%24%352% \$447.00004.00000000000000000000000000000	2252	18%
POTAL MAND I ROM CC	(3.1.5) 12.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	3150 728 1 36 1 3 (31	9,178
Сигла	(10)	10%	%
CHT	(55)	ਹੈ, ਬੜੈ	882
Į, į	\$22152555222222222223 \$225252555555555555555	8311 8811	31%
INDIA	(13.50) 11.52 11.53 11.5	25.58 5.25.88	1 556
Industrial (*)	[©] 8222344244243422 <u>=</u> <u>Cooocoocoocoocoocoo</u>	8828 %%%	28%
lndur	2) 82 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 25 2 25 1 00 1	3 740
	Application of the control of the co	1193 to 1834 "Oyears to 1864 1894 1924	lorais

OBUDYS ON LAMCICS. Buse I on boother to 1889 and Bureau of the U St Mint sauce but with considerable assumptions by the writer in attempting to complete the figures of the first post of the College of

This Worls was comage.

To 1871 these are the flavors for the quinquenia ending one year later. Seatheer is followed to 1873 and the Direan of the U S. Mint since

To 1871 these are the flavors for the quinquenia ending one year for the discovery of America. In the perio i 1706-1870 China is wiid to have absorbed £'0,000 000 to £100,000 000

٠,

ds sterling) (Runees comerted at average exchange for each year) TABLE III --INDIA'S ABSURFTION OF SILVER AND GOLD

3	F	ر ز ن	2	-	Rupees unimited SS	N ON IND			to 13d for 1894–95 £1 per oz Silver importation	Free gold and silver		
Chronology.		1835 Silver standard adopted with rupee of 165 gr	1841 Mohur of 165 gr of pure gold authorised to received by public treasures		1853 Gold declared not legal tender Rupefellegal tender Free comage of 8 lver	222	1893 Indian mints closed 1894 Silver import duty of 5% ad valorem imposed	1896-97 and 1859 90 Great famines owing to group	1889 Tapes fixed at 161 atter failing to 12d for 1831-29 Sorersigns legal tender at Ra. 15 to £1 1910 Silver import duty rased to 4d per of 1917-20 Gold Importation restricted. Silver importation	1920 Silver import duty removed importation restored		
RATE	RUPER	23 04	Pb -2	22 0d	F0 F6	25 27 27 27 27 27 27 27 27 27 27 27 27 27 27 2	3128 3124	15 14	18 07 18 07 18 07	11 14		
PROPORTION OF NET IMPORTS OF TREASURE TO	NEFEXPORTS OF MPRCHANDISE	(37%)	%6 F	27%	42%	140%	42.44. 42.44. 42.44.	%of	#5228 %2%%	7.01	75.7 41.9 62.9	21%
NET EXPORTS	Merchandise	(30)	(31)	(30)	(40)			105	147 160 223 317	153	268 638 1,105	2 011
PROPORTIONS TAKEN	Gold	15%	13%	%09	31%	2424 %%%	19.25	27%	488 7387 7387 7387	%99	28.82 28.83 28.83	45%
PROPORTIC	Silver	85%	81%	40%	%69	5655 %%%	8,7759 %%%%	43%	72555 72555 72555	%#L	65 75 75 75 75 75 75 75	25%
RPTION	Fotal	п	13	œ	11	8858	8484	£2 42	20 101 121 175	163	00 00 00 00 00 00 00 00 00 00 00 00 00	1,139
INDIA & ABSORPTION	Golden	61	6.5	e	20	3881	E 5557	**	2008	108	825	215
Ivpr	Silver	6.	=		22	200	8888			55	135 303	129
	ı	5 vests to 1839_40	1844-45	1849 50	1854-55	1859-60 1864-65 1869-70 1874-75	1879-80 1881-85 1869 90 1894-95	1899-00	1904-05 1908-10 1914-15 1919-20	, 1924 25	30 years to 1864 65 1894 95 1921-25	Totals 40 years

Table IV—China's Absortion of Silver and Gold (In milhons of pounds stelling, conserted at average exchange for each year)

	NFT IMPO	NFT INFORTS (+) OR EXPORTS (-)	08TS (-)	PROPORTIONS TAKEN				
	Silver	Gold	Total Treasure	Silver	6.011	Merchandise	10 NET IMPORTS OF MERCHANDISE	Kate per H tael
5 years to 1894 1899 1904 1905 1911 1911 1911	111111111111111111111111111111111111111	++++++ 112 6 5 1 1 117 6 5 5 1 1 6 5 5 1	++++++++52893	97% 101% 101% 101% 101%	- 13% - 18% - 11%	28 99 11 166 89 88 89 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	5504558 5502535	224 334 334 334 334 524 524
Totals, 35 years	+82 #	+24-9	+109 6	78%	% 66	6 299	16%	

iff Set imports as given in trade returns (i.e., at commercial prices for the 6 years to 1924 when gold was at a premium) plus the country s own production (1 Net Imports

Norg --These ligares are collated from the Annual Reports of the Imperial Chinese Customs. They do not include Hong Kong. Every year shows an adverse balance of traite on merchandise tione. Large remitiances home male by Chinamen abreat are not included in the treveure figures.

	TABLE V	Distribution	TABLE V DISTRIBUTION OF WORLD'S TOTAL GOLD PRODUCTION	TOTAL GOLD	PRODUCTION				
	END OF 1834	F 1834	End o	END OF 1873	Fad of 1913	1913	END (END OF 1924	
	બ	Proj ortion	7	Prot ortion	43	Proportion?	3	Proportion	ion
In State Banks and Treasur es In other banks In c reulation Not traceable (including hoarding)	****	0.0.0.0	****		945 000 000 125 000 000 500 000 000 18 000 000	10% 30 8% 4 31% 16	7 1 710 000 000 90 000 000 1 100 000 000 200 000 000	81% 5% 10%	2012,
World S Stock or Gold Mover (excluding India China and 1 gypt)	196 000 000	35%	587 000 001	100% 47%	1 58% 000 000	100% 51	2 100 000 000	100%	23%
Absorbed by Industrial Arts (Europe and	380 000 000	20%	477 000 000	- 38%	1 042 000 000	÷	33% 1241 000 000	1	31%
Absorbed by India Ol ma and Egypt	60 000 000 28 000 000	20%	158 000 000 28 000 000	13%	392 000 000	{	13% 553 000 000 3% 10°C 000 000	11	14% 7%7
Worll s Goll Output (from 1493)	264 000 000	%001	1 250 000 000	- 100%	3 122 000 000	- 100%	4 000 000 000	ļ	100%
Goll Money in the Un ted States Un ted Kingdom	11	11	2° 000 000 *105 000 000	3 8% 1 8% 17 9% 8 4%	392 000 000 159 000 000	100% 194	19.1% 935 000 000	81%	23.4%
	TABLE VI-	Mentioned in Er DISTRIBUTION	Mentioned in Enclyclopælia B tannica Vol 10 p 729 Distribution of the World's Total Silver	annica Vol 1b 1	* Montioned in Enclyclope ha B thunter Vol 10 p 72° Table VI — Distribution of the World Storal Maken Punction	 			
	LND OF 1534	1534	Lvb of 1878	1873	F\D OF 1313	1313	END	Eab of 1934	
	Fine ozs	Proj ortion	Fine 07я	Proport on	Fine (74	Proj ortion	rine 028,	Proportion	tron
								-	

RRFN	CY.	AND 1	FIN
1934	Proportion	15%	17%
Ean of 1934	fine ozs.	2 000 000 000	000 000 616 6 6
1313	Prot ortion	17%	14%
F's or 1313	Fine (24	1 100 000 K 0	0.0000000000000000000000000000000000000
1871	Proport on		
Evn or 1873	F1ne отя	в	٠.
1534	Proj ortien	a	
LND OF 1834	Fine ozs		•
		Barba	

1 3% % 17 %% 8%% %% *** %00 3 740 000 000 1556 000 000 >82 000 000 2000757 13,457,000,00 200 000 000 000 000 01 5 1% 9 ကိုကို ŝ 35, 5.0 000 000 3 161 000 000 3 636 000 000 514 000 000 11 934 0816 600 3 170 0 00 000 ... % %% (3.73 %°, 2001 5 000 000 55 000 000 1 565 000 000 2 054 000 000 5,761,000,000 38% % 10% 2001 H 350 000 000 450 000 000 1 331 000 000 4 481 000 000 11 Absorbed by and estral arts (Europe and World a Stock of Silver Money (exclu-Silver Money in the Unite I States Silver Money in the U1 ited Kingdom World s Silver Output (from 1493) India China and Egypt) Absorbed by India Absorbed by China

America)

* Redicting concey for Sine is Sequencial Hong Kong In to-China British West Africa of ar portion set Africa etc. These countries are not included in the World a Stock of Sirve May above. These than hands are leavy. Included the rest was the first Sequence to an if for a known for the Sirvits Sequence to an if for a known for the Sirvits Sequence to an if for a known for the Sirvits Sequence to an if for a known for the Sirvits Sequence.

IABL VII-GOLD PRODUCTION

(In milions of pounds at \$1/11\f per ane ounce)

	<i>u</i> 7)	o suothut	f pounds a	18 51/11/5 2	(In inditions of pounds at \$1/114 per pire ounce)	nce)					
ſ	1915	1316	1917	1918	1113	1920	1351	1933	1993	1921	1325
Transval Unite! Sintes Unite! Sintes Americlesa Americlesa Bab feer Riusesa Ret of World	ಹೆರ್ನೆ ವಿಷಣಕ್ಕ ನಿರ್ಕಾಣಗಳು	25 26 20 20 20 20 20 20 20 20 20 20 20 20 20	238 27 27 27 27 27 27 27	が基とのようのに、	102 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	#5-+ 00 7 * * 7 1 * 4	#5~~~~==	\$0 2405 x 1x1-	8522233-3 6-3828-6	\$5e45 5e45	50r~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Total	49 4	3.5	86 3	79 0	77.0	s 63	080	5	5 52	0 08	0 0%
		1 0	ONBUMITIC	CONSUMPTION OF GOID	ē					ſ	
In Justrial Arie (America and Farepe) India (sear to March Bist, following) Olinn Egypt	1730	0082	150 1350 101 101	1 1 2 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 0 T 1 0 T	2210 0020	5 LL C	0100	240	201	525 - 0 - 0 0 1	55 55 11
Total Demand Balance available for money (difference)	15 8 80 6	25 4 68 1	38 1 48 2	14 1	62 4 12 6	12 33	313 5	24.2	73. 5 27. 0	31 00	000
Worl 1 s Output	1 96	93.5	8 95	79 0	0 22	33	0.80	3 52	75.5	0 0%	0 9
	1	Worle	o's Sroch	World's Stock of Gold Mont	Mont		J	1	-		
Total Per cipita	1.73f 236d	1801	1,852	1 HZ	2514	1 977	2031	2634	2081	2617	2661
	-	1					_				

APPENDIX 83

Supplementary statement submitted by Mr. Joseph Kitchin of the Union Corporation, Limited, London, on "Redundancy in the United States Stock of Gold Money."

This matter may be looked at in three ways -

 From 1873, when the United States adopted the gold standard and had only £22,000,000 of gold money, to 1887, when its stock reached £134,000,000, the country was evidently collecting its necessary stock of gold. During the first years of this period its currency was at a discount. From 1887 to 1895 51A years of this period its currency was at a discount commodity prices which commenced to fall in 1873, reached their lowest point, and the stock fell to £104,000,000 From 1895 to 1913, during which period the world's stock of gold money was advancing rapidly and commodity prices were rising strongly, gold money in the United States increased every year (except in 1909) until it reached £392,000,000 From the end of 1914 to the end of 1924. owing largely to the effect of the War its stock increased from £371,000,000 to £935,000,000, and m 1925 the tide turned, reducing the figure to £907,000,000 At the 1895 1913 rate of increase it would now be £534,000,000 or £323,000,000 less From 126 per cent of the world's stock of gold money at the end of 1895, the United States proportion increased to 247 per cent at the end of 1913. It was 224 per cent at the end of 1914. 34 per cent at the end of 1918. 288 per cent at the end of 1919 and 445 per cent at the end of 1924, and is now 424 per cent At the 1895 1913 rate it would now be 274 per cent, the difference of 15 per cent on the world's stock of £2 137,000 000 at the end of 1925 being the before mentioned £323 000 000 This way of looking at matters tends to exaggerate the final figure because it assumes a simple or fixed annual increase, while economic progress should advance at a compound rate requiring a rising increase in absolute amount per annum

(2) The increase in the holding of gold money shown by the World and the United States in the 18 years to 1913 and the 12 years to 1925 respectively have been -

_	World	United States
1895 1913 Increase in Stock of Gold Money Compound rate of increase per annum	£827,000,000 to £1,585,000,000 or 1 92 times 3 7%	£101 000,000 to £392,000,000 or 3 77 times 7 6%
191 1-1925 Increase in Stock of Gold Money Compound rate of increase per annum	£1,588,000,000 to £2,137,000,000 or 1 35 times 2 5 %	£392,000,000 to £907,000,000 or 2*32 times 7 25%

During the 18 years before the War the United States increased its stock at twice the rate of the world, and this is understandable in view of the rapid increase of wealth in the country From 1914, owing to the operation of the Federal Reserve Bank system, it should have needed proportionately less gold, while, on the other hand, its late entry into the War increased its requirements relatively to the rest of the world — in the period 1913 1925 the world's stock increased at a lower rate than in 1885 1913 (94 per cent of the addition to the stock, going to the United States), and if consequently the United States had needed to increase its stock at say 5 per cent per annum instead of the 76 per cent of the previous 18 years, this would have meant a stock of £704,000,000 at the end of 1925, or £203,000,000 less than the actual figure

can be applied to the Tederal Reserve system. Figures showing the recent gold monetary position in the United States are 28 follows —

US TREASURY STATEMENT

(In millions of dollars)

_	1 Jan 1923	1 Jan 1924	1 Jan 1925	1 Jan 1926	1 March 1926
Gold coin and bullion hell in Treasury for PR Banks and Agents.	2 230	2 220	1,957	1 649	1 (53
Gold coin and bullion outsile Treasury held by FR Banks and Agents	220	278	225	290	312
Gold certificates (covered 100% in gold in Treasury) held by FR Banks and Agents	40,	39>	238	598	691
	2 860	2 893	2 780	2 537	9 5%
Gold certificates (covered 100% in gold in I reasult) in circulation	0.3	582	171	1 114	1 071
Gold com and bullion in circulation Other gold held in Treasury against U.S. Notes etc.	49 } 341	415 357	158 338	494 333	492 361
Total stock of gold com and bullion in the United States	3933	4 747	4 54 (4 40%	4 415
Total stock of money (including silver) in circulation in the United States	4 733	4901	499,	5 008	4814
Total stock of money (including silver) in circulation in the United States per capita	42 SI	41 29	44 03	43 (3	41 84

FEDERAL RESERVE BOARD STATEMENT

	3 Jan	2 Jan	31 Dec,	30 Dec	7 April
	1923	1921	1921	1)25	1926
ΓR \otes in actual circulation	2 411	2 245	1 862	1 835	1 653
Total deposits of Reserve Banks	2 02)	2 051	2 311	2 357	2 278
Total F R Notes in circulation an I deposits	4436	4216	4 193	4119	3 9 31
lotal FR Goll Reserves Proportion of Goll Reserves to comb ned Notes and Deposits	3043 67 4%	3084 71.8%	2947 70 4%	2704 64 5%	7783 70 8%

The following rearrangement of these figures may be added with a note of the probable redundancy —

(In millions of dollars)

(*			_
	En l 1927	Fnd 1993	End 1924	Fnd 1975	March 1926
Total F R Notes in circulation and deposits Gold Reserves require 1 at 50% Actual Gold reserves	2 °18 3 049	4 296 2 148 1 084	4 173 2 086 2 937	4 192 2 096 2 701	1 965 2 783
Difference—apparent redundancy	831	936	168	605	818

If gold certificates in circulation (the amount of which around 1920 1922 was only \$200,000,000) had been represented by FR Notes instead, the following figures would have resulted -

(In millions of dollars)

1 nd 1922	End 1923	1924	End 1925	Marel 1926
436 303	4 296 582	4 173 171	1132	1,931
4739	4 578	5141	5 30 ს	5 007
2 169 3 35°	2 439 3 666	2 172 3 108	2 653 3 816	2 503 3 859
943	1,227	1 30	116,	1 506
152	231	4%5	5,7	5'8
10,	159	۶, ۱	1.57	2 151
	1922 1436 303 4739 2469 3 372 983 152	1922 1923 4 176 4 296 303 582 4 7 19 4 4 578 2 469 2 4 397 3 3 5 3 666 983 1,227 152 231	1922 1923 1924 4476	1922 1923 1924 1925 4 176 4 296 4 173 5 132 80.0 582 771 1114 5 7 19 4 878 5 144 5 306 2 469 2 439 2 172 2 653 3 357 3 666 3 68 3 818 983 1,227 1 8 116 132 231 485 5 7

This statement shows the efforts made in the United States to keep prices stable by the circulation of gold certificates covered by 100 per cent of gold rather than Federal Reserve notes Since the end of 1922 the aggregate of notes and gold train reduct in the two local comparatively stable at \$2,700,000,000 to \$2,630,000,000 but the circulation of Federal Reserve notes has declined from \$2,411,000,000 to \$1,633,000,000, while that of gold certificates his been markedly augmented from \$303 000,000 to \$1,076,000,000, so that the difference between them has dropped from \$2 108,000,000 at the end of 1922 to \$891,000,000 at the end of 1924 and to \$577,000,000 on the latest figures

This clearly shows that the authorities are attempting to make the redundant gold as ineffective as possible as regards influencing prices Applying the 50 per cent gold reserve ratio before mentioned to the combined notes and deposits of the Reserve Brinks the amount of redundancy of gold in the Reserve Briks—called 'apparent redundancy" in the table above—is shown since 1922 to be from £125 000 000 to £192 000 000 But the total (apparent and dormant) redundancy would have been higher if it were not for the putting of gold certificates into circulation for in that case it 15 shown that it would have been from £202 000,000 to £279,000 000 It is of curse to be expected that if the present policy of the Reserve Board were to be reversed the gold certificates would come back from circulation very slowly

On the whole it may be said that while the United States has added \$515 000 000 to its stock of gold money in the twelve years to 1925 only some 2280 000 000 of that amount is now redundant owing to the economic progress made by the country, while by the monetary policy adopted £110 000 000 of this £230 000 000 has been rendered dormant and only £170 000 000 is a catally redundant at present. The flow of gold into the United States has stopped and

the total stock of gold money shows on the whole a declining tendency

In a separate statement the writer has estimated that the world's stock of gold money will be £2425 000 000 at the end of 1935. This with the figures in the first table above and the assumption that the United States' stock will be the same in 1935 as in 1925 yields the following (the percentages are compound rates of increase per annum for the intervals) —

I nd of	United States	Rest of World	World
1895 1913 1323 1915	104 000 000 332 000 000 907 000 000 7 25% 907,000 000 Nil	1 230 000 000 25% }1 1%	827,000 1000 3 7 % 1,588 600 000 3 7 % 2,137 000,000 2*5 % 2,125 000 000 1 25 % } 1 95 %

The assumption that the United States' total will remain the same in 1935 as in 1925 is based on the idea that it will take 10 years to remove the present redundancy, and the figures arrived, at seem reasonable. They show the United States, owing to its superior rate of economic progress, taking gold at twice the world rate both in 1895-1913 and in 1913-1935—in the latter period at a much decreased rate, thus accommodating itself to the slower rate of increase in the world totals—and they show the rest of the world, after taking hardly any gold on balance for 1913-1925, readjusting itself thereafter by relieving the United States of its surplus (or rather by taking the whole of the world's new gold production available for monetary purposes), and at a not excessive rate if allowance is made for the necessity of making up for the set back caused by the War on the one

hand and the impoverishment due to the War on the other It has already been suggested that the apparent redundance of gold in the United States under the system of price stabilisation adopted is £170,000,000, or £280,000,000 if one includes the hidden redundancy due to circulation of gold certificates in place of notes This would mean that, of a stock of £907,000,000 at the end of 1925, £630 000 000 was normally required which was raised to £740,000,000 by the expedient of circulating gold certificates From £740,000,000 at the end of 1925 to £907,000,000 still at the end of 1935 is an increase of 2.05 per cent per annum and from £630,000,000 to £907,000,000 is an increase of 37 per cent. per annum An average of these rates—say 25 per cent, taking twice the World's increase for the period as before—would raise £630,000,000 at the end of 1925 to £835,000 000 at the end of 1935 leaving £70,000,000 to represent the apparent and dormant redundancy from which to arrive at the apparent redundancy as shown by Federal Reserve Board figures, must be deducted half the amount of gold certificates then in circulation. The raising of the £630 000,000 to £997 000,000 at 25 per cent per anium—ie to fallow fully for both appirent and dormant redundancy on the assumption that all the gold certificates will be taken out of circulation an unlikely event would take until 1940 If the present figure of the circulation of gold certificates remains unchanged for an indefinite period it would take until 1934 to raise the £740 000 000 to £907,000 000 at 25 per cent per annum Taking such a rate as 25 per cent allows for the fall in com modity prices which the writer expects to take place

The policy of the Reserve Board will apparently be to maintain and increase the circulation of gold certificates so long as there is any apparent redundancy and as that disappears (as judged by Federal Reserve figures) to reduce their circulation until more normal figures are reached. How far this process will go on depends upon the policy adopted. The United States may also continue to loose gold—it lost £21,000 000 in the fourteen months to the end of February last—and this would expedite the elimination of the redundancy. If the Federal Reserve Board's ratio of gold reserves to Inbilities is permanently kept above 50 per cent this would also reduce the redundancy. If therefore seems that the redundancy should disappear somewhere between 1930 and 1940 with a strong probability of

the vanishing well within 10 years from the present time

Enl of stock of gold mone	in Uni	ited	End of	*Worlls stock of goldn oner	†Propo n Un Stat	r red	Fnd of	World s stock of gold mo ey	†Prop ut L Sa	a ted
Millions of pounds 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1871 1881 643 1884 643 1884 645 1884 660 1885 660 1885 710 1887 701 1890 720 723 733 734 73	MT ous of poinds. 221: 24: 24: 25: 26: 26: 26: 26: 26: 26: 26: 26: 26: 26	Per cent 3 7 4 0 3 3 4 4 7 7 4 0 3 3 4 4 7 7 7 12 8 4 1 15 2 2 1 1 4 1 1 1 2 5 5 6 1 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1892 1533 1534 1835 1836 1837 1900 1901 1902 1903 1903 1904 1905 1907 1909 1909 1900 1900	Mill ons of pounds 7514 Not 1 Not 2	W Rious of pounds 120 122 111 101 121 131 175 204 2210 225 230 245 200 332 341 337	Per cont 10 8 8 6 12 6 2 14 9 6 14 18 6 17 3 6 12 12 1 8 17 3 6 17 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1911 1912 1913 1 114 1915 1 116 1917 1918 1919 1921 1921 1922 1924 1925 1930	1 4 17 1,531 1 288 1 756 1,736 1,804 1 859 1 917 1 930 1 977 2 031 2 002 2 000	M Brons (F) trods (T) trod	Per 24 7 25 24 7 27 26 6 33 8 0 6 37 1 4 1 5 4 1 5 4

The writer a computation, excluding Ind a, China and Egypt. † From U.S. Mint Reports

APPENDIX 84

Letter dated the 30th March 1926, from the Manager, Chartered Bank of India, Australia and China, on behalf of the British Exchange Banks.

We beg to acknowledge receipt of your letter of the 9th instant, with enclosures as specified, and beg to say that Mr Charles Nicoll, General Manager of the National Bank of India, Limited, will be pleased to attend at the India Office at 10 30 a in on the 14th proximo, as representing the British Exchange Banks, and give evidence within the scope as outlined hereunder

The questionnaires submitted have been perused with interest, and as they cover

a very extended field, we elect to confine ourselves to the following heads -

1 Gold currency.-We are not in favour of the immediate introduction of a gold currency into India

- 2 A gold standard We are in favour of a gold standard, ie that it is put on the Statute Book that the Government is bound to buy gold at a rate to be fixed upon (this will depend on the basis at which the rupee is fixed) and to sell gold for export (or the equivalent in gold funds) at a rate to be arrived at as above We emphasise the Government because we are of opinion that for the present there is no other authority to whom those duties could legitimately be delegated
- 3 Council Bills -Only to be sold to the actual extent of Government published Budget requirements and should be put up for public tender in India and London The sale of council bills may be undertaken by the Imperial Bank as Agents of the Government
- 4 Currency -No additional currency should be issued that is not covered by the actual tender of gold com or bullion in India and/or in London earmarked for shipment to India
- 5 Currency Notes -In our opinion all currency notes should remain Government of India notes and the management of the issue remain in the hands of the Government
 - 6 Rupees -The legal tender of rupees not to be disturbed

7 Stabilisation of the Rupee -We consider the stabilisation of the rupee is desirable, and that the time has arrived when it is practicable. The present position is unsatisfactors, owing to the uncertainty, which reacts adversely on trade

As to the basis, we are of opinion that the advantages attending the adoption of the rate of 1s 6d which has been the working rate for some time past, outweigh the disadvantages and consequently we see no objection to stabilising on the basis of 1s 6d, in preference to the old basis of 1s 4d

We do not think that fixing the rupee at, say Is 6d, once it is accepted as an accomplished fact, will affect the demand for gold in India to any appreciable extent

8 Gold reserves -In our opinion the fact must not be lost sight of that there is an important section of the Indian community who have at heart the wish for a gold currency, and although the more moderate of this line of thought recognise that the present time is not opportune, still the idea exists and as time goes on it may gather force sufficient to call for the Indian Government giving the matter serious attention force sufficient to can for the interest of the control of the con India's gold position will have been steadily improving all the time, which will enable her to tackle the problem when it does come up again upon a surer basis

Also it will give a measure of comfort to the gold currency section to see that

something is being done

NOTE -The following is a list of the British Exchange Banks party to the above --

The Chartered Bank of India Australia, and China The National Bank of India, Limited

The Hong Kong and Shanghai Banking Corporation The Mercantile Bank of India, Limited

Lloyd's Bank, Limited, Eastern Department The P. and O Banking Corporation, Limited

The Eastern Bank Lamited

APPENDIA 82

Statement of evidence submitted by Sir Stanley Reed, K.B.E., Director of the Bombay Electric Supply and Tramways Company, Limited

(1) The time is ripe for a solution of the problems of Indian currency and exchange by measures for the stabilisation of the rapee

(2) The rupee should be stabilised on a gold standard

The ratio at which this stabilisation should be effected must be considered in relation to the history of the Indian currency. The ratio suggested by the Herschell Committee in 1893 was Is 4d The ratio proposed by the Fowler Committee in 1893 and adopted by the Government of India was Is 4d That ratio was the established legal standard of money payments from 1898 until the disturbances caused by the war. when these adjusted themselves the Indian exchange fell to approximately 1s 4d

The established legal standard of money payments should only be disturbed under stress of overwhelming necessity Round it an immense volume of contractual obligations has been built up. No evidence has been produced showing that my supreme need for the alteration of this standard has arisen or that any insurmountable difficulty exists to prevent its restoration. Whilst no special sanctity establishes to a ratio as a ratio the standard for money payments should be, and usually is regarded as less open to repeal or modification than perhaps any other legislative act

On this general principle that the established legal standard of money payments should not be disturbed no departure from the goal of Indian currency policy, from 1893 until the financial disturbances of the war is warranted except on proof of overwhelming necessity or evidence that it cannot be maintained

(4) The gold exchange standard practised before the war should be abandoned for a definite gold standard siming at the ultimate establishment of a gold currency, if when that stage is reached opinion in India demands it

The Gold Standard Reserve should be located in India and held chiefly in gold

(a) The note assue is efficiently managed by the Government of India through the present agency That system should not lightly be disturbed If for any special reason it is desired to bring the note issue more directly under control in India then it should be vested in the Imperial Bank of India as an entirely separate department of the Bank and under conditions which will not admit of any considerable departure from present practice

Notes of small value such as the one-rupee note have many advantages They are popular, they form a line of defence against any manipulation of the silver market in face of a demand for the coming of rupees. They should therefore be retained, if

only on a limited scale so that people may be habituated to their use

(7) The remittance operations of the Government of India should be conducted by the Imperial Bank of India through the purchase of sterling in India and limited to meeting the Home charges of the Government of India

(9) Any silver required by the Government of India should be purchased by open tender in Bombay

APPENDIA 86

Statement of evidence submitted by Mr George E Roberts, Vice-President, National City Bank of New York, and formerly Director of the United States Mint

1 The bankers of the United States inviself included are interested in the work of this Commission as preparators to the re-establishment of the gold standard in India on a definite and permanent basis. We believe that this is highly desirable from the standpoint of the people of India and as a part of the general movement for the re-establishment of the gold standard throughout the world as the basis of trude and financial relations. I need not dwell upon the benefits to be gained by all countries from the restoration of a common standard of value—the experiences of the last 12 years have afforded ampli demonstration of the evils resulting from unstable currences and exchanges—in the United States it has happened that we have seen that the this Commission as preparatory to the re-establishment of the gold standard in India

full advantages of the gold standard cannot be enjoyed by one country alone. We have found that even our internal prices and the prosperity of all our industries were affected by the loss of a stable relationship between our monetary system and the systems of other countries.

- 2 We are interested, therefore in the reconstruction of the universal gold system as something generally desirable but since this means demands for gold from many countries we are interested also that these demands shall not interfere one with another or seriously affect credit conditions in the countries which are expected to supply gold I am old enough to remember that 30 or 40 years ago there was much talk about a "scramble for gold and of falling prices commonly attributed to a scarcity of gold That situation was changed by a great increase in gold production Through the development of the South African and other goldfields the banking reserves of the world were repleaished and from about 1837 world prices were rising until the outbreak of the war after which the inflation of credit became the dominant factor The rise of mining costs then had a tendency to currill gold production particularly in countries like the United States where gold had to be sold at the mint price as before the war and the world's output declined from a value of about £96 400 000 sterling in 1915 to about £63 300 000 in 1919 and £63 300 000 in 1922 the low figure of the latter year being due in part to a miners strile in the Transvaal Since then the Transvaal has been quite successful in reducing costs and has completely reguined its pre-war rate of production but other important helds particularly in the United States and Australia have not been so successful In 1924 the world's output way, about £80 000 000 sterling and that of 1920 was perhaps slightly higher. The world's production therefore has recovered about one half of the decline occasioned by the war but is about £15 000 000 below the production of 1915 I am inclined to the opinion that the prospective supply of new gold is large enough to permit the general re establishment of the gold standard without serious disturbance to prices provided possible economies in its use are effected and the new stocks wanted are acquired without too much disturbance of existing stocks already in use as the basis of credit These however are necessary qualifications, and it is especially important that the new demands shall be satisfied from current production.
 - 3 The war caused an enormous expansion of credit and a great displacement of gold stocks The gold reserves of the banks of issue and Government conversion funds have been increased from approximately 51 billions of dollars or roughly £1 100 000 000 sterling to approximately £1 900 000 000 or a little above 70 per This is an increase somewhat greater than the rise of the general price level as it stands to day, but the banks are carrying unusual amounts of Government paper as compared with ore-war days. It must be considered also that the increase in gold reserves has been by no means all from the mines but largely by the accumulation of coin that had been in circulation Moreover, this increase in the gold reserves means that larger additions to the reserves will be required in the future to maintain a percentage increase corresponding to the growth of trade Thus a 2 per maintain a percentige increase corresponding to the growth of tride. Thus a 2 percent annual increase upon £1,000 000 of reserves would call for ±2,000 000 of of new gold while a 2 per cent increase upon £9,000 000 000 of reserves will require £40,000,000 of new gold. I am not saying that a 2 per cent annual increase is required but I am pointing out that if the price level is to be maintained at approximately 50 per cent above the price varieties of the maintained at approximately 50 per cent above the price gold will be necessary. If there should be an expansion of business over the world and at the same time a general replacement of sold coil into circulation the gold reserves probable would not be replacement of gold com nuto circulation the gold reserves probably would not be sufficient to supply the amount of credit necessary to muntain the present price level In my opinion it would be a mistake at this time to afford facilities anywhere for gold to be absorbed into circulation
 - 4 The distribution of gold stocks at this time is very uneven. As a result of war and revolution the great reserves of Rissia (which aggregated about £160 000 000) have been scattered. The reserves of the Austio Hungarian Bank (which were about £30 000 000 sterling) were much reduced during the war, and what was left finally distributed to the succession States. The reserves of the termin Richelands were greatly reduced following the war but within the past year have been restored to approximately their pre war strength. This does not, however fully restore the pre-wir monetary and credit situation, as before the war a large amount of gold coin was no circulation which must now be replaced by Re chabank, notes thus increasing the charge on the gold reserves. Since 1013 excepting Belgium France and Portugal,

the gold reserves of Western Europe have been largely increased. This is true also of the resulves of Switzerland but those of the other countries of Central, Fastern and South eastern Lurope have been reduced 1 hose of Italy have been reduced by more than 20 per cent

Gold is the most liquid form of capital the form most suitable for use as the basis of commercial credits, and it is evident, from the high bank rates now prevailing throughout Central and I astern Lurope that credit is very scarce throughout that Gold 13 needed in all those countries to permit credit expansion to lower

interest charges and to stimulate a revival of trade and industry

6 About a year ago the Bank of England resumed gold payments accompanied by the Netherlands Bank and this action was hailed as possibly inaugurating a general disappointing although not wholly so Polund attempted to establish her currency on a gold basis and obtained a loan in America but the coulditions were too unfavourable and the new currency has suffered a heavy depreciation Belgium has sought to do the same but has not been able as yet to carry out her plans, and her currency has She will need a sub trutral foreign loan to achieve success of I rance has suffered further depreciation during the year. She does not need to increase her gold reserves at hone but she will need credits outside which will be a charge upon the reserves of the countries granting them. The Chervonetz currency of Russia issued by the State Bank on a gold basis and said to be currency of rousing assure by the other branch of a good basis and said to be in lependent of the Government finances is now neported a's suffering deprecation If and when Russin comes I acl into the world of business (as it is to be hoped she will without long delay she will need important help from outside in the establishment of a stable currency

7 The Bank of England has lost approximately £9 600 000 since the resumption of gold prements and the management feels it prudent at this time to maintain a discount rate which is somethat above the ordinary rate in pre-war times and to that extent must be regarded a burden upon the industries of the country at a time

when they are needing to have all conditions as favourable as possible

8 The Banl of the Netherlands which resumed gold payments coincidently with the Bunk of England also has lost gold during the year of Switzerland which is on a free gold basis has lost about £1500000 during the part year. Sweden also on a gold basis has lost a small amount of the

metal during the year

9 On the other hand Hungary has successfully re established a new carriency on a gold basis by the aid of a foreign loan and Czecho Slovakia with similar assistance has established a national Bank of issue with every prospect of being able to maintain has established a fraiding blink of 1850c with every prospect of delig note to maintain her currency on the gold basis. Germany by means of the Dawes plan loan and extensive borrowing by industrial and municipal corporations has increased the gold stock of the Reichsbank by about £43 000 000 of which £17 000,000 was acquire l ın 1925

10 The United States lost about \$134 000,000 during the year 1925

11 It is evident that the movements of gold during 1925 and down to this time have been on the whole away from the chief financial centres and to what may be called the outlying countries. India took about £43 000 000 sterling during the calendar yerr 1925 which, however refers to net imports and not to gun in banking reserves yerr land New Zerland reserves increased £13 000 000 sterling Java gained about £4 000 000 Canada £3 500 000 Poland £1 200 000 and numerous countries such as Italy Hungary, Roumanna 11 go-Sl 191a, Bulgaria Austria and Belgium gaine l

12 This movement away from the chief financial centre, is nothing to complain of It is all right and illustrates the part which they play in the ultimate and inevitable distribution but also illustrates the general interest in having the centres kept strong to meet the demands from all quarters

13 Whatever loans are required for the rehabilitation of monetary systems naturally must be made in the countries which have surplus capital for investment abroad and busing reserves must cust there to meet the demands which such loans make

putterpute to any considerable extent in foreign loans. They are Great Britail, Holland and the United States 14 There are only three countries at the present time which are in a position to

- 15 Great Brit un by re ison of past experience and relationships, is the natural le ider in international fine incum particularly in behalf of any of her Dominious, excepting possibly Canada. I live already referred to the position and present this own rate of the Bunk of England. I would not even suggest the possibility of Great Britings again suspending gold payments, for I do not think the world cun afford to have that occur it would be a world wide claimity. The lank of England must maintain gold payments at any cost, as the centre and mainstay of the movement to accomplish world wide, resumption but a discount rate which is a restriction upon British commetce would greatly hamper the Bank in its co-operation to that general purpose
- 16 Holland is able to co-operate, and always has shown a disposition to do so but cannot act alone upon large undertakings
- 17. The United States has gained the greater part of the increase in gold reserves since 1913, the net increase in the holdings of the Treasure and banks having been nearly \$2,500,000,000 (4.500,000,000) or about 60 per cent of the world's increase. It has been a common assumption that the United States has a great surplus of gold, and even was in danger of being smothered by it or compelled by the naturally reserved inflation to give up a large part of it. However, the United States is a big country and has large digestive capacity. It is a mistake to suppose that the United States has any considerable excess of gold reserves at this time. At the present price level and with the present volume of credit outstanding the reserves of the United States are no greater than the financial authorities of the country deem reasonable, conservative and described
- 18 In Inly 1914 the gold holdings of the I reasury and brinks equilled about 7 per ent of the aggregate amount of or dit currence in circulation togs ther with the net individual deposits of the briks. At this time they do not exceed by per cent A similar calculation for Great Britain shows a set reserve of about 6 5 per cent 1 he percentage is higher in the United States that in Great Britain but, in our opinion there are sound reasons whi this should be. The United States is of great territorial terpanse and no such concentration of bruiking control exists there as in Gra I Britain It has a great number of small banking institutions which look to the reserve lanks for support. The country has had several unpleasunt experiences in the past with general bruk panies the one in 1907 causing an almost complete suspension of cash payments throughout the country. This was before the establishment of the reserve system, but individual bruk failures have been not infrequent in the last five years.
- 10 The reserves are divided among 12 reserve institutions. The reserve percentages of the reserve bruks are high, but they are calculated upon the knowless of the reserve banks alone and these bushs do not participate in the general brushing business of the country. It must be considered that these reserves are practically the only reserves for the entire brushing system.
- 20 Moreover it has to be considered that the central reserve sistem is comparatively now will us and in view of the small participation of the reserve banks in the total banking business it is not altogether certain to what extent they will be able to control the banking situation
- 21 In view of the unsettled conditions in world trade and finance still existing we do not feel that present reserves in the United States are excessive
- 22. I have thus gone over the general stuation preparatory to expressing my opinion of the proposal for establishing the full gold standard system in India, as outlined in the plan which has been handed to nie by your Charman. Whitever opinions I express are based upon this plan and the estimates which are made therein. I do not feel that I have sufficient knowledge of conditions in India to express an independent opinion upon the amount of gold required or of the amount of silver which will have to be taken from the public and disposed of
- 23 Accepting the estimate that £103 000 000 sterling of gold will be required over and above the usual imports of past years which have been also bed for ornaments and other private purposes and that approximately £50 000,000 of this will be required within the first year, I am of the opinion that the plan will subject the financial world to a strain which ought to be avoided and I set no reason why it may not be avoided. It appears that after supplying the demand for the arts and the amount which went to the outlying or non-lending countries, none of the new

gold production of list year was available to swell the reserves of the lending countries. In fact we know that these countries all suffered losses from their reserves in the pist year. Evidently a special cill for £50 000,000 storling or approximately \$250 000 000 could not be met without being drawn almost wholly from their reserves which would necessitate drawing in their resources and curtailing credit both at home and abroad

- 21 Gold obtained by means of a loan will not necessarily come from the country or countries in which the loan is placed or in the same proportion. The movements of gold are determined by nany conditions. If for instance a loan was placed in the United States it might be advantageous to use the credit there to buy gold in London or elsewhere or if the gold was originally taken from the United States the effects there might cause Americans to withdraw capital from other countries. The financial world is so closely related that whereas it the loan is placed or the gold obtained the effects will be felt in all countries.
- any It would be very unfortunate at this time to lave a forced contraction of credit analyshere. It would increase interest rates but this would not be the worst of it because the very purpose of increasing rates would be to force a curtailment of applications for capital. It would tend to increase unemployment and to lower the general price level and while there are good reasons for regretting the great rise of prices occasioned by the wir and the myistice and hardship thus inflicted upon manu people it is too late to remedy all that now. The high price level has been maintained so long and such a vist body of indebtedness has been created upon that basis that to force adjustment to a lower level would repeat all those evils with the added danger of protracted industrial depression and widespread social disturbance.
- 24 India necessarily has a commo anterest with other countries in the maintenance of general prosperity. She is a large exporter of products mainly raw materials of industry, the prices of which are affected by the general state of industry over the world. The experience of the last five years has been that in any general decline of price raw materials and agricultural products have fallen faster and farther than manufactured goods. I know that this has been the case in the United States and my information is that it has been true in India and elsewhere. It may be accepted as a general rule resulting from it e fact that the manufacturing industries are highly organised and resist wage and price reductions while the rural populations are unable to do so
- 27 I do not believe that a gold circulation is essential to the maintenance of the gold standard in India with all the benefits that go with it anywhere. The essential thing is that the currency in circulation and which the people receive in payment for wages and products shall have a stable relation to gold and be readily convertible into gold for all the foreign payments they wish to make
- 28 The fact is that in all the advanced countries the trend is away from the use of gold as a com non medium of exchange and even away from paper money for pryments of any size to the use of brak checks. For pocket change, wages and retail trade a token currency answers every purpose. Gold is too valuable for use in hand to-hand payments to be kept in the pockets or hoarded by millions of people in any country. It is a waste of capital to use it in that way. It is a backward rather than a forward step to provide for gold coins in circulation.
- 20 I do not believe that the countries of Europe ever will go back to the common use of coins. In the United States the use of gold coins continued for many years in the Profile Corist States because gold was one of the products of those States the people were recustomed to handling the coins and were reluctant to change their habits. Since the wir however gold has gone generally out of circulation even there and a gold coin has become a raity in any part of the United States. More and more our people are making their payments through the banks.
- 30 I am aware that with the mass of the people of India payments are too small for the use of checks, but I should think that this would be true also as to gold come
- 31 I hesitate to express my opinion about matters with which I have so little personal knowledge as conditions in India I know that it is a country in which changes in long-established customs take place slowly but I am profoundly impressed that no country is in a position to effect so rapid a betterment in social conditions as India might accomplish by the development of a modern bruking system I if the capital held unproductively in that country could be gathered

together and invested for the development of industry the wealth of India would ripidly increase the incomes of all the people would increase and the country would enter upon a new err of grareful prosperity.

32 I do not assume for a moment that I am alvancing an idea that is new in India On the contrary, I have been moved to say what I have by howledge of the fact that the Impeiral Bank of India now has 100 branches in operation. I hope the results will afford encoura, ment for opening many more and that the services they will real let will gradually bring about a change through which the wealth that they will be then constantly accruing trade balances instead of being buried in idle handsmay be used to provide them with a more abundant supply of the comforts of life

33 The growth of banking facilities seems to me the hopeful line of development for India and to properly take precedence over an increase of facilities for the widespread

distribution of gold com

34 I would not suggest that the interests of India be sacrificed in any way for the benefit of the rest of the world but I am impressed that in the present situation the problem of restoring, the would to the gold basis is appendent for success largely upon India and I am s in that success will serve the interests of India as well as those of the other countries

The Redemption and Sale of Silver

3.5 I now come to the part of the plan which deals with the disposition of about 200 crores of rupees or approximately 687 million fine ounces of silver for the double purpose (as I understand) of eliminating rupees which it is thought will be redundant as a circulating medium under the new system and of obtaining gold for the reserves. This will be regarded in the United States and all silver producing countries as a very disturbing proposal.

36. The silver question his been a very live question in the United States for a longitude for many veries it was an acute political question. This was not due entirely of even mainly to the fact that silver mining was an important indisting in the country but largely to the fact that the momentary system had been nominally at least limited the from the foundation of the Government and that popular opinion inclined to the view that the demonstration of silver tended to lower the general price level and to operate to the disadvantage of a debtor country and the debtor class generally

37 All political puties for a time were more or less commuted to the view that bimetallism should be maintrined and both of the leading parties participated in the legislation under which approximately 400 000 000 ounces of silver were purchased by the Treasury, from 1575 to 1893 and coined into dollar pieces of unlimited legal tender on Government account. Those purchases have seemed to us to aggregate a large amount but it does not sound so large in comparison with this proposal for India to sell 637 million ounces.

38 This silver purchase policy was for the purpose of maintaining the value of silver bullion with the view to the re-establishment of full bimetallism

39 The increasing production of gold answered the principal argument on behalf of bimetallism and gradually the subject censed to be a political issue. However people are tenations of political destruies to which they have adhered and with many of our people there has remained a strong sentimental interest in silver to this day.

40 As evidence of this I woull point to whit is known as the Pittman Act prissed in 1018 under which several hundred million silver dollars held in the I reasury were authorised to be melted and sold to the Bittish Government or to our own importers, as a means of making renutances to India at a time when exchange was very difficult to obtain. The object for which that silver was pinclined and those dollar pieces had been coined had been long since abandoned. The coins represented an unavuilable asset in the Liersury which from the point of view of Government hinance alone naturally would have been disposed of, but the spell of the old purpose together with the appeals of the mining industry which uged that sales would defioralise the indirect was extincently strong to secure the incorporation into the Pittman Act of a provision requiring that all of the bullion resulting from the melting of toses coins should be repurchased in the cent of silver's falling to \$1 per ounce and recoined into dollar pieces. All of it has been now repurchased

41 I think this background of silver history is necessary in order to understand just how a considerable section of the American people will react to this proposition to sell 685 000 000 ounces of Indian silver come with a view to completing the

demonetisation of silver in India It will be regarded as the finishing act in the demonetisation of silver in the country which has afforded the greatest market for it in the past

- 42 It goes without saying that the silver producing industry will hear of this proposal with dismay. The total production of silver in the world is now at the rate of about 240 000 000 fine ownees per year, of which India has been accustomed to take about one third and in the last three years has taken close to 100 000,000 ownees per year. Of the world's production the United States contributes about one fourth the figures for the last two years being about 50 000 000 ownees each and the United States Canada and Mexico contribute approximately 73 per cent
- 43 What is to be done with an annual production of 240 000 000 ounces of silver when the country which has been taking 100 000 000 ounces of it drops out as a buyer, and becomes a seller on a large cale?
- 44 I think this question expresses what the natural reaction will be although I am not clear that the situation would be quite so bad as it indicates for I suppose that the demand for silver for ornaments would continue upon some scale, and that eventually there would be some use of silver for subsidiary coins. It would seem probable however that confidence in silver as a store of value and respect for it as one of the precious metals would be more or less shaken, and that private purchases would be affected thereby
- 45 At best the proposition is certain to be regarded by the mining industry with very great alumn and if approved by this Commission to have a very serious effect upon the value of investments aggregating hundreds of millions of dollars
- 46 Even if sales by India abroad be left out of the account and these 657,000 000 o/s should be simply held to be gradually absorbed by home consumption it is difficult to see how the current production could be disposed of outside of India China is the next largest purchaser but a heavy full in the value of silver would work serious derangement in both the internal and external trade of that country
- 47 The purchases of silver by Governments for coinage purposes always have represented the principal consumption, but they would not be increased in any important degree by a lower price
- 48 It should be noted that there has been a pronounced tendency amongst Governments in recent years to lower the fineness of their silver come for the purpose of cheapening the cost. Thus the British Government has lowered the fineness of its silver comes to object on the seems quite probable that this practice will extend further. In other cases nicked has been substituted for silver as in the cise of some of the come of I rance. These developments discourage the hope that the demand for comage purposes will increase.
- 49 The cost of the silver used for table-ware and ornamental purposes is subordinate to the labour factor in the cost of manufacture so that while a lowering of the price of the metal might stimulate such use in some degree, price reductions to consumers would not be proportionate to reductions in the price of silver bullion
- 50 When the production of any commodity is in excess of the deman I there can be no relief until the price falls to the point where diminishing production and increasing consumption bring supply and demand into equilibrium. It looks in this case as though the adjustment would have to be munly on the side of supply
- 51 The statement of the plan makes an estimate that the price obtained may be expected to be not less than 24d per standard ounce. The market price in London this week for spot silver has ranged from 21d to 293d. I do not know that silver this week for spot silver has ranged from 21d to 293d. I do not know that silver for sale in India for export would bring more than in London. This would contemplate a fall of about 6d as the result of the announcement of the plan and the actual sales. It seems to me that this is a small decline to expect under the circumstances. The first big break in silver occurred in the early seventies of the circumstances. The first big break in silver occurred in the early seventies of the circumstances. The first big break in silver occurred in the cardy seventies of the circumstances. The first big break in silver occurred in the cardy seventies of the circumstances were demonstrating it as last century, when Germany sold in all about 55 000 000 fine ounces from 157d to standard money. Germany sold in all about 55 000 000 fine ounces from 157d to standard money. The first page and 50d in the last, a drop of 97d in the first year and 50d in the London market in that lowest prices in these years the lowest price recorded on the London market in that period was 461d in 1870 which was a drop of 13d in three years.
- 52 The next decline in silver occurred in the 12 year period following 1890 Who the latter year agitation began for closing the Indian Mints to free coinage the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the Indian Mints to free coinage of the latter year agitation began for closing the latter ye

highest price for silver in 1890 was $51\frac{3}{8}d$ and the lowest $17\frac{3}{8}l$ a difference of nearly 7d. In 1892 the high was $43\frac{3}{8}d$ and the low $37\frac{1}{8}l$ in 1893 when the Mints were closed the high was $8\frac{3}{8}l$ and the low 20d in 1897 the high was $31\frac{3}{8}d$ and the low $20\frac{3}{8}d$ and in 1892 the high was $27\frac{3}{8}d^2$ and the low $20\frac{3}{8}d$ and in 1902 the high was $26\frac{3}{8}d$ and the low $21\frac{3}{8}d$. Thus in three years the price field from 54d to 27d exactly one-hilf and before it stopped falling it fort under 22l which was 2d below the price named as the minimum to be realised on the sales under this plan

- 53 There was no talk of selling silver out of Indiant that time simply after that the importations might be reduced. As a matter of fact the actimportations of silver into India since 1893 have been larger on the average than before that your but instead of the coinage being free or ou private account it is seen on Government account.
- 54 I would also call attention to the first that this great decline in the price of silver did not cause any falling off in production. He world a production of silver in 1892 wis 153 000 000 ounces, and it has no been so low as that in any year since
- 55 Silver sold below 24d not only in the years I have a one I but in 190, 1904.

 1910 1911 1914 and 1915 in all 10 vers out of the last 25. I am unal le therefore to accept the opinion that 21d is a price that will re luce production to the point where supply and demand will find an equilibrium with In hi no longer in orders in the markets.
- 56 Unquestionably the lower prices of silver which have prevailed since 1890 excepting in a few years of wir disturbance have closed it my silver mines but others have continued to operate at a profit. Mining and treatment of it have been reduced in the last 30 years arch mines have continued to produce and new ones have been discovered but one of the chief reasons for the increased production of silver despute the lower prices, is that a large part of the production is now in conjunction with the production of other metals in fact silver is largely a by product of mining operations in which copper lead and zinc are the chief products and bear the larger part of the exponse
- 5. The report of the Director of the Mint of the United States for the fixed lyear ended 30th June 1925 (prog 33) contains a table finanshed by the Bureau of Mines which gives the source of the silver production of the United States in the calendar year 1924. It accounts for over 0.4 000 000 into sources of which 23 000 000 were recovered from copper ores 20 500 000 from lead ores and 20 000 000 from what are called dry and siliceous cress, being those from which nothing is recovered but silver A small amount of silver is obtained also in conjunction with gold.
- 58 According to these figures less than one-third of the silver output of the United States in that year was obtained from mining operations in which the chief product was silver. The same is largely true of silver production in Mexico and other countries.
- 59 It is evident that silver production from this class of mines is not likely to leas readily responsive to changes in the price of silver as production from what are called straight silver mines. The net profit of operating these mines depends upon the combined resilis and upon the prices of copper and lead and zinc as well as the price of silver.
- 60 It is a very difficult matter to say at what figure the price of silver will be low enough to close an important proportion of these mines. There are men sufficiently familiar with such properties to give opinion worth having but I would not attempt to give an opinion other than that I think the figure would be considerably below 21d.
- If it is to be considered that mining properties are not abandoned whenever their operations show a deficit recording to upproved bool leeping methods which include charges for depletion of mineral depreciation of equipment bond interest &c. Unler the conditions here presented mines will be operative as long as they pay operating costs and possibly in some instances even longer in the lope of a favour-ble turn with regard to some of the facto's. If there is no hope as to silver there may be hope as to copper or lead. With silver now under 30! I do not think a drup to 24d would reluce production enough to off set the withdrawal of India
- 63 The fact that so much uncertainty attaches to this feature of the plan makes it very important as I view it that the best expert opinion on the subject be had by the Corums on before coming to a conclusion. If silver should fall to 15d instead

- of 21d, it is evident not only that the sales of redeemed silver would yield much less for the replemshment of the reserves but that the decline would signiff a heavy depreciation upon all the silver hoards of India I leave it to others more familiar with the psychology and habits of the Indian people to estimate what effects there might be in the way of inducing a more rapid conversion of silver into gold than has been contemplated or of general discontent with the new system, or of influencing the people to the purchase and hoarding of gold instead of silver. With what we know of human nature in the United States we would expect developmens on all these lines.
- 6.3 For reasons which I have outlined in the first part of my discussion I would consider the last named possibility one of great importance to the world at this time. The people of India have been buyers of silver on a great scale for a long time. They have been accustomed to esteem it as one of the precious metals and it would seem that the reduction of the rupee to be a subsidiary coin and a furtler scrous decline in the price of bullion naturally would have the effect of lessening the demand for all the purposes for which silver has been wanted in India and of increasing the demand for gold. Furthermore this probably would be true as to many uses the world over I do not think the world cut a sford to encourage or satisfy such an increase, in the non monetary uses of gold at this time.
- 64 The one certainty as to the price of silver in the event of this plan a adoption would seem to be that it must fall low enough to effect the curtailment of production necessary to bring supply and demand into the balanced relation. I do not see how this can occur without cloing an important proportion of the properties in which silver is produced in conjunction with the other metals and if this result is forced the disaster throughout the inning industry will be enamous.
- 65 Although silver is a minor factor in the income of this class of properties my understanding is that it supplies all of the profit and bears a part of the expense Whether the required curriniment would be accomplished at 20d or 16d. is not important if it be true that this class of mines must be largely closed before the decline can cease

 This would mean a very great destruction of property values a grave displacement of labour, and probably higher prices to consumers the world over for copper, lead and zinc
- 66 The latter possibility has various phases. A general cessation of operations by the silver lead and silver-copper companies would force up the price of lead and copper to a point where increased production would be induced from some source and some of the closed properties might be enabled to resume operations at even lower returns for silver than have been suggested in this discussion. This would put more silver on the market and thus readjustment might go on until what in the past lave been considered the humbler metals bore practically all the cost of producing silver. On the other hand there is the possibility that low cost copper producers in South America and Africa might expand their operations at the expense of their North American competitors many of whom have been able to hold their own in the past largely by reason of the silver contents of their ores.
- 67 The value at this time of the mining properties in the United States which would be put in serious jeopardy by this plan probably is not less than \$0000000000 Higher figures have been named to me by tren whose opinions are entitled to as much weight as any that can be had on this subject. Many thousands of workmen employed by the mining smelling and transportation companies would be involved. The runifications of the effects of the closing down the various operations upon ores producing silver, lead copper and zinc are far reaching.
- (8 Moreover they would not be confined to the United States for the mines are in many countries and a disaster to this industry at the present time obviously would be unfortunite for the influence it would have upon general industrial and business conditions throughout the world.
- 60 I am sure that no such ill-effects are contemplated or desired by the spon-ors of this plan and I am confident that this Commission will recognise that the problems involved in it are too complex and the issues too serious for action to be taken without the most exhaustive investigation into the conditions which I have outlined
- 70 In conclusion I would repeat that in speaking of silver production I do not wish you to understand that I am an expert upon the mining industry. I am not a mining engineer, nor engaged in mining but during the vers of am incumil ency of the position of Director of the Mint of the United States at happened that I had the

opportunity to become somewhat acquainted with gold and alver product on I prepared the statistics upon the subject which appear in the Unit Reports of those years. I have known many of the men who have been prominent in the mining industry in the United States and I have felt justified in laying before you the general information which thus has come into my possession. For more examinational in the will be necessary to have testimony from persons intimately related to the industry. My statement is for the purpose of emphasising the importance of having such testimony before acting upon this proposit to sell large amounts of silver from India or to make any further change in the policy of India regarding silver.

APPENDIA 87

Report on proposal to place India on a Gold Standard, by Mr Arthur Notman, Mining Engineer and Geologist, New York.

The method of putting this proposal into effect may be outlined as follows—
The rea in the currency reserve of the In han Government and in the silver rupes
in circulation which will be presented for redemption in gold, the equivalent of
687,000,000 fine ounces of silver. It is proposed to release this total in equal annual
instillments over a period of 10 years, which would be equivalent to an increase of
about 30 per cent in the present available annual supply of 240 000 000 ozs

Far reaching Effects

The effects of such action would be far reaching throughout the non ferrous metal industry of the world. The burden of these effects would fall in large part, in that portion of the industry owned in the United States. The luger share of the domestic burden would fall upon the lead industry together with the consumers of that metal Copper too would be materially affected, whereas the zinc industry would be little disturbed.

Basis of Value

In the past the price of silver has reflected any reduction in its use for coinage purposes and will doubtless continue to do so in the future. The world's stock of silver in all forms is steadily increasing. With a growing volume of trade between the Orient and the gold standard nations of the West the reverence for the metal as a symbol of value will gradually disappear. The present agitation from India is evidence of this tendency. Regardless of any governmental action this cannot fail to have a depressing effect on consumption in the Tast.

Growth of World's Stock of Silver

Is we shall see, an increasing proportion of the total production is a by product of the base metals. In view of the growing demand of the world for the latter metals solidly bread on manifold industrial uses, the world is stool of silver seems destined to increase even more rapidly than in the past. It is able to suppose that in the face of these forces even the world old sentiment of the Orient for the metal will successfully hold back economic law.

World Production

In the years 1923 and 1924 the v orld produced 480 000,000 czs of silver, for which it paid approximately to cents per oz , or \$312,000 000 $^{\circ}$ This production was divided as follows —

SILVER PRODUCTION OF THE WORLD 1923-4

			u metona i	oj Ounces					
United States - Canada - Mexico - Central America South America -	:	:	130 39 182 6 55	Europe Oceania Asia Africa	:	-	:	:	19 25 21 3

Total Western Hemisphere 412

Total Eastern Hemisphere 68

Grand Total, 480

Sources of Domestic Production

North America accounted for 73 per cent of this output, and United States investors received the benefits derived from at least 300 000,000 ozs. The United Stries production was obtained from the following sources from straight silver ores, 45 per cent, from lead ores and lead ores carrying a little zinc and/or copper, ores, 40 per cent , from read ores and read ores carrying a fittle zinc mayor copper, 35 per cent from copper ores, 20 per cent , and the small remaining balance from zinc ores. The world figures represent a record for silver. This is true, also, for the lead production In the case of copper, the output in the war years 1917-18 exceeded that of 1923 and 1924 by about 6 per cent, but the latter years made a peace time record

The volume and trend of domestic silver production, and their relation to those of the base metals, are brought out in the accompanying Charts I and 2 World figures, if available, would in all probability show similar relationships evidence, so far as base metals are concerned, points strongly to still rapidly rising production and consumption. At the moment stocks of these metals are if anything below normal, showing that consumption has fully kept pace.

Domestic Consumption

The domestic consumption of silver for the 12 years 1912 to 1923 inclusive, according to the American Bureau of Metal Statistics, was 663,000,000 ozs Of this 41 6 per cent went into coinge and 58 4 per cent into manufacturing and the arts One quarter of the latter amount was derived from old scrap, and the balance from new inaterral

The principal industrial uses are silver ornaments plating photography, and the chemical industries. It should be remembered that aside from the small amounts actually consumed in the two latter industries and the amounts lost by physical wear and tear on coins and ornaments or accidentally, the total stock is augmented each year by the numual production In other words, the metal is practically indestructible. There are no statistics available to comprehend this condition. Presumably the great bulk of all the silver that has been produced since the beginning of time is still in existence in one form or another Most of it, however, is performing no essential service

Domestic Industrial Consumption

No reliable figures other than those for the United States covering industrial consumption have been compiled. The per capita domestic industrial consumption has remained nearly stationary at 32 of an ounce for the last IC years. Its relation to the per capita consumption of the base metals, copper, lead, and zinc, is shown by the American Bureau of Metal Statistics as follows -

Per Capita Industrial Consumption-United States

			Dilver	Base metals
			_	
For the three years, 1912-4, inclusive	- 84	-	31 ozs	23 52 lbs
1922-4, "	-	-	32 "	30 75 "

It seems probable that the industrial consumption of the nations of western Europe would bear somewhat the same relation to their consumption of the base metals as is apparent in this country Unfortunately, our classification does not show what part of our industrial consumption depends on mere appearance and sentiment and what on valuable physical, chemical or electrical properties peculiar to silver However. it seem, likely that the former considerations form the basis for the larger part of this consumption It is not without significance that silver ornaments are stamped with the sterling brund to distinguish them from the e made of many equally attractive but much cherper base metal alloys.

Current Costs of Silver and the Base Metals

In examination of the attached cost data, Tables I and II, for the years 1923 and 1924 throws light on this question These data have been assembled from the published annual reports of a group of representative silver producers domestic companies had an output for the two years in excess of 75 million ozs,

approximately 58 per cent of the total domestic output

In the preparation of the tables the production has been classified as follows -(1) Geographic illy into domestic and foreign and (2) according to the nature of the ores from which the silver is derived The latter classification serves to separate that portion of the product on which is mined essentially for its own value and/or that of associated gold from that secured as a by product in the extraction of bise metal ores Strught zinc ores carrying silver have been distegarded for the reason that the production derived from them amounts to but 2 per cent of the total

Silver and Silver Gold Ores

Table I shows that in the case of these ores a reduction in the price of silve" of the 1923-4 average of about to cents per cuace to 45 cents would reduce the distributable margin before depletion from 30 cents to 10 cents per ounce or 66° per cent Out of this distributable margin provision must be made for the return of the capital investment with interest before there is any real mining profit. It is difficult to arrive at any satisfactory figure for the average investment per ounce of annual production in the case of these producers of strught silver ores The reason for this is that the usual and justifiable conservative policy followed by them involves the charging out of these investments rapidly against earnings during the early history of Perhaps \$1 00 per ounce of annual production would be a fair estimate of the amount of capital require! To insure its return with interest over the his of the deposits the annual yield should be 8 to 10 cents per onnce. In reality, therefore when the distributable margin falls to this figure, there are no profits

Base Metal Ores

Companies faced by such a condition usually continue to produce even after this hving wage has disappeared in the hope that better prices richer ores lower cost any or all will enable them to hold their heads above water. These considerations apply with equal force to the silver lead and silver copper pro lucers It is probable that there would still be some production from the first group after the price reached 20 cents per ounce Selective mining of ores higher in grade than the average of the past might enable them to maintain a limited output with some distributable margin Here again the same principle holds true for the producers of silver from base metal With each succes ite drop in price all units would be affected but in varying The most lil ely outcome would be that instead of certain units disappearing from the picture as might be gathered from the tables the production of each would be reluced The combined effect of such reduction should approximate that which would be caused by the elimination of the higher cost units

With these ideas in mind a study of Tables I and II will give a picture of the effects of a falling piece for eilter on this particular group of producers Table III should be studied with the others as it summarises these effects assuming that the prices of lead and copper will remain at about the present level of 8 cents and 14 cents per lb respectively As we shall see later this is not apt to be the case To maintain the present requisit, supplies of these metals in the face of falling prices for silver their prices must necessarily rise However on any other assumption the

picture would become too confused to hold my meaning

It should be noted in the case of the Anaconda Copper Company that about one-half of their domestic investment is involved in activities other than that of one-int of their consess. The producing electrolyte copper. Presumably therefore one-half of the margin shown is represented by income from these operations. Before compurison therefore with the other companies the cost of their copper should be taken at about 11 70 cents The case of the Utah Copper Company representing over 20 per cent of the copper production of the group d serves special mention. Silver plays such a small part in their income that they would be practically unaffected. In all cases the costs shown are after all credits and charges excepting bond interest and depletion the auer an electric and the copper industry shows that the investment amounts to 40 cents per pound of annual output on the average

The figures for lead are not so APPENDIX 87 557

reliable, but indicate an investment of about one half of this amount. If we assume that in general these properties have reserves of ore in the ground sufficient to maintain production for 20 years an 5 per cent annual dividend on these investments will yield 5 per cent interest and an annual instalment which reinvested at 4 per cent compound interest vill return the capital in 20 years. In other words the capital charges amount to 3.2 cents per pound of copper and 1.6 cents per pound of lead. Naturally, those companies will continue to produce as long is they can earn any margin before these capital charges.

I run the above it would follow that with lead at 8 cents per pound when the cost as shown reaches to 4 cents profit disappears, and similarly in the case of copper With the meral at 1t cents per pound when the cost reaches 10 8 cents profit aunshes I is allot to suppose that production from these sources would then cease We have already discussed the factors tending to maintain output under similar conditions in the care of the silver and silver gold ore. In that of the base metal ores there would be the added stimulus of the prospect of rising prices for these metals.

Estimated World's Silver Production at falling Prices

It would seem essential for a proper view of silver production as a whole to attempt a quantitative estimate of the effects of this proposal in the light of those indicated on that portion of the industry for which we have figures. To do so, extrain additional assumptions are necessary teyond that of constant prices for the base metals at their present level. I or example this would be a reasonable assumption that the combined production of Canada and Vexico is obtained from the three classes of ore in the same proportions as that of the United States (for the latter see (hart 2) namely, 13 pc, cent from straight silver and silver gold ores (dr. and siliceous and placer) 55 per cent from silver lead ores 20 per cent from only and sinceous the prace; by per cent from since new ores 20 per cent from silver copper ores and per cent from zinc orts (Lead ores carrying minor amounts of zinc have been included with the lead silver group) In general the similar geological environment in these adjacent areas of the North American continent to that of the United States afford strong support for this assumption To carry the assumption further and cover the balance of the world production is questionable assumption further and cover the burdee of the whole of North America we have already covered 73 per cent of the total production. Even a substantial error in this balance will be giently minimised in the total how the silver production of our selected group would be affected by falling price while Table IV shows the estimated effects on world production a suming our sample to be representative and the necessary assumptions sound

Balance between Production and Prices

Just where the balance between production and prices of silver and the base metals would be adjusted is extremely difficult to forecast. In the absence of action such as that proposed in the plan under discussion however investments and metal prices can and will be gradually adjusted to changing conditions without serious upset. On the other hand, the proposed action would unquestionably precipitate a most serious condition of affairs with leavy losses to investments which amount in round numbers to I billion dollars in this country alone. An unavoidable sequel would be the loss of employment to many thousands of workmen by the enforced shutdown of mines nulls smelters refineries. &c.

While these facts apply more directly to the domestic situation it is true that the effects would fall even more severely proportionally on Meanco because of the fact that they produce 50 per cent more silver, largely from lead silver ores similar in nature to those of the United States

Since 1904 the silver production of the Province of Ontario of the Dominion of Canada has amounted to over 350 million ounces with a gross value of 225 million dollars. The average price received on this production was 63 66 cents per ounce of the obvious that if the future production can be sold at prices only from one third to one-half of this figure a tremendous injury will be done to the Cana han investments. The Western Hemisphere produces about 55 per cent, of the total world output. With silver at 20 cents the income derived from this production would amount to 40 million dollars annually, compared with 130 million at the

present level. As already pointed out, the prices for lead, copper and zine would inevitably be foiced to a sufficiently higher level to compensate for this loss of incomerous level. In my judgment, the increases necessary would amount to 1½ cents to 3 cents per pound of level to 1 cent to 2 cents per pound of copper. If we now apply these uncreases to the present rate of consumption in this country for level and copper they will amount to an annual charge of 54 to 66 million dollars. There is danger that such an adjustment in price in the case of copper would result in the transfer of a material portion of the production to foreign hands with consequent severe loss to domestic investments. The dangers of any sudden disturbance of the equilibrium among the factors controlling the veltare of the non-ferrous metal industry of the world are obvious. Our study strongly supports the view that the present proposal would constitute an upon danger of this sort.

TABLE I

Output and Costs of Principal Silver Producing Companies of the Western Hemisphere for the two years 1923 and 1924

Note 1 —All data taken from published annual reports of Companies or Year Book of American Bureau of Metal Statistics

Note 2 —Costs are taken after all credits and anchorages excepting bond interest and depletion with

PRODUCTES OF DEV AND SHARLOUS Production Cost before bond of Cost of C

United States — West End Consolidated Mining Co	Silver 024 1 912 058	Total Dollara 640 905	Per oz Cents 33 52	Total Dollars	Per oz Cents
Tonopah Mining Co	3 9ა6 025	2 125 987	53 74	470 000	11 85
Tonopah Extension Co	3 612 018	1 301 389	36 0.3	900 000	24 02
Tonopah Belmont Co	2 084 459	1,044 903	50 13	474,600	22 TT
Cal forma Rand Silver	4 672 817	937 418	42 03		
Total	16 °37 407	6 070 602	37 38	1 944 660	11 3G
Canada — Premier Gold Mining Co	5 961 933	2 004 859	32 63	5 173 2"5	86 77
Aspissing Mines Ltd	6 489 778	1 753 154	27 01	_	
Keeley Silver	8 224 776	679 639	21 07	_ :	
Conngas	1 890 977	618 739	32 72	_	
Central America — N Y Honduras Rosario Minii g Co	4 2 78 115	1 897 370	44 88		
Mex co -		+	İ		
El Tigre M ming Co	5 715 109	2 030 346	35 51	_	_
Amparo Min ng Co	2 463 215	792 332	32 17	1 092 920	44 37
Dolores Mmes Co	1 826 869	1 067,634	58 41	_	

TABLE II.

			ļ	j	TANGET	:								
To the Create Ores	Produ	Production	Net cost of lead.	lead.	Silver eredit.	rdlt.	Other metal credita.	eredita.	Not income before bend interest and depiction	before at and	Eatimated cont of lead perilb	Eatimated Estimated cost of cost of cost of cost of cost of cost of	Estimated cost of lead per lb	Estimated cost of lead parill.
Lacourage of Casas to Secure	Silver	Lead	Total	Pes 16	Total	Per fb load.	Total	Per lh.	Total	Per 1b	at 40 centa	nt 30 cents	at 20 cents	at 10 cents
Target States	0.24	Š	Dollars.	Ceote.	Dollara	Cents	Dollars	Cents.	Dollars	Cents.	Center			Cents.
This Standard	7,819,757	04,044,030	3,556,055	90		10		١	3,723,774	3.58	2 89		_	s + s
Silver King Coalition	4,308,239	61,907,127	1,056,077	2 2	182008	-	100,413	0 0	1 03 0 0 0 1	4 6				0 - a
Ther, City Mining and Smelling	1.880.714	65,538 455	2,368,167			2 01		. 1	2,029 613	2 2	2 4			7
Federal Mining and Smelling Co.	3,260,728	142,782,000	8 033 101	2		95.5		1.	2,968 836	80	= 3	30	9	9 9
Chief Consolidated	181.007.0	162,706,861		-	1763519	25		- 1	5.036.570					4.1
Bingham Mines	2,041,118	18,816 600	803,276	4 26	-	2	131,665	92.	329,998	2	8	- 1		10 36
Total	30,671,197	618,417,005	27 322 728	3	20,949,523	3 30	1,953,698	0 %	20,4-5,042	2,	8	9	ea 9	1.58
Canada Consoldated Mining and Smelting Co	7,034,738	Lend, zinc, and copper	15,246,811	, =	16611991	-	761 780		7 584 151	2	=	=	09.4	69 +
United States and Mercotom "United States Smeling, Red Manner Co	16,802,544	Lead. 105,605,694	7,315,306] =	36,726,333	55 25	13,631,536	8 9	7 738,858	96 8	ë t	12 19	89 11	17 17
Grand total	84,"98,49"	1,224 996,193	49,884,847	1 03	56,317,253	9.4	15,747,914	8,	33,799 023	24 GF	*8 %	5 5	8	8 05
PRODUCERS OF SILVER BEARING COPPER ORES.		Company	100											
United Verde Copper Co	3,579,657	332,173,156		188	3 082,304		3 323 565	**	2,351,848	‡ ï	200	12 8	12	#E
Utah Copper Co Kemecott (Anska only)	152,788			_ `	523 467		2,989,11	e	4,000,612				10.01	10.01
Caluract and Arzona †Anacomia Consolidated Copyer	1,638 559	479,042,000	25,064 032	_	1,078,590	2 2 2	1105 G80	Z .	1,749,703	2 60		25.00	14 55 00 00 00 00 00 00 00 00 00 00 00 00	10 36
Total	27,898,325	1,555,890,373	155,311,239	66 8	19,185,230	1 23	9 659,636	0 00	57,525,169	5	10 46	10 64	10 88	11.13
Cunada and Means	4 674,105	48,676,000	4,682,276	09 4	3,068,418	6 27		1	1,985,687	80	8 68	13.00	13 96	11 92
South America	28,160,000	164,194,000	9,250,638	, E3	18,498,341	11 27	821,810	1	13,422,295	8:3	86.6	12.12	3 2	8 20
Total	32,774,105	213 670,000	13,932,305	4 24	21 564,759	20 12	648,128	16 0	15,407,982	7 23	10 43	12 05	13 50	15 13
Grand total	60,472,572	1,"67,960,173	169 243,544	29 22	40,749 989	15.	10,307 644	82 0	72,933,161	£ 13	10 46	10 85	61 13	11 53
"The production figures for the United States Smelting Company recited that of the Chief Consolidated Mining Company and possibly some others as well as that from the	for the United	States Smeltin	g Compuny a	reluce the	t of the Ch.	ef Consol	dated Mining	Compan	y and possible	Fome of	hers as we	Il as that	rom the	1

Compay years maris this Christ Stress and Stress.

T its grant of the Amenda Copys Company cover its Protection of copyer from the Company own muses in Mortan. Cost Spreas are before both attents there is no contract to the Stress of St

TABLE III

)				ROYAL	COM	utss	ION	ON	INI	MARC	ct	IRRI	ENCY	ANI
			Per Cent of World.	10,13	8 3		17	1	-	1,	80	9.7	% -2-	
		ts an or	Per of US.	91	9 0,		411	ı	1	П	1	1	1	
	la	At 10 cents an oz	Total oze	11 850,473	19,778,988		8c7,EO7		7,031,758	18 415.233	27,518,52,	ı	1	
	or the met	 	Per cent, of Norid	980	F 01		120		\$3	1	. E	18 8	3.6	
	prices fo	te n's oz	Per cent, of US	17.1	3S G		13	ı	1	Ü	l	ı	ı	
	Product on at falling prices for the metal	At 20 cents us oz	Total ozs	22'267 870 27,898 52.0	50,166 396		103,738	corterres	39 804,863	20,000	00.73.030	89 971,21 4	1	
١	Prod	Γ	Per real of World	140	10.4	_	61-41 O 13	٥	10 3	0.	23	128	23.6	
1		te an ox	Per cent of U 4	17.1	38 to		11	1		1	Н	1	1	
		At 30 cents an ox	Total ora	22,267,870	50,166 376		9,714,552	32,774,105	19 528,117	9,711 551	60 673 630	49 640 892	1	
	1		Per cent of World	65 th 20	13		45	8 9	13.7	9 .	13.0	26 7	33 7	TABLE IV
	9	8 N or 21 40	Per cent. of US	8 3 18 7 21 5	7 8∓		1.1	1	١	1	11	1	1	T.
		Rema ung s ner mt so renta an ez	Total ors	10 713 101 24 308 948 27,895 525	62 990,814		25 748 785	32,774,105	65 556 618	36,162,0%6	51,545 146	128,479,412	1	
			Per cent of World	440	15 6		11 3	8 9	40 3	10 0	12 6	10 3	Ī	
		Prod et on	Per Cent	23.2			11	1	1	1	П	1	1	
		Proc	S lver ore	16,237,407 30,871,197 27,598,525	75 008,129		31,803 772	32,771,105	193 112 308	48 001,179	84 778 499 60,672,630	193 512,308		
			l	United States — Dry and siliceous silver ores	Total	Canada, Mexico, Central and South	Americas — Dry and soliceous silver ores	S lver-copper ores	Grand total	Dry and otherous ores	Salver lead ores	Grand total	Per cent reduction	

Falmated World Production of Silver at Fulling Prices

At 10 cents an or.

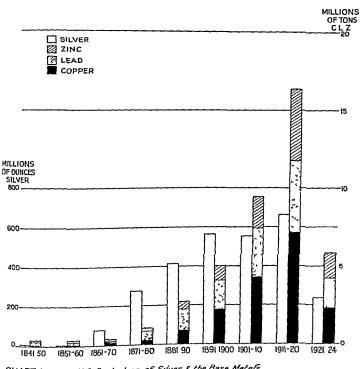
\$1 20 cents an ox

11, 30 ex ette an oz

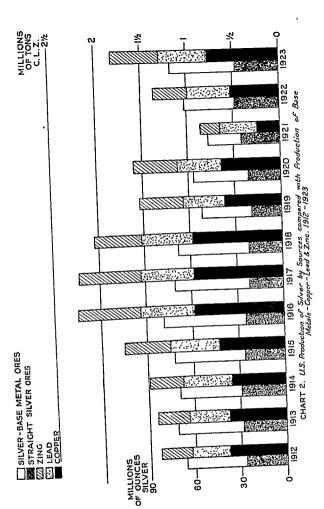
At 40 cents an os.

1t 65 cents an na

Ku å of Ore	Total oza	Per cent.	Per cent. Total ora.	Per rent	Fotal ors	Per cent	Total one	Per ceut.	Total ors	Percent
Dry and allocons Dry and allocons Silver lead Silver copper	000 008;1 000 000;1	252°	78,210 000 30,720 000 49 000 000 4,800,000	8188 6860	25.770.000 25.770.000 45.000.000 1.800.000	6118 600 000	24 700,000 15 000 000 1,800 000	1128	18,150 000 12,180 000 4,500,000	1-10
Total	210,000,000	0 001	161,760,000	1 19	83,520,000	8 11	81,30,000	33.9	000'0115'57	14.9
Notz - Base I on fol	Note—Base to following assure pt metr-(1) That prives for finel and opports Wiremain constant a tyres of Rotales 11 few to profit respectively. (2) That worth had least the base of the service world control and proposed that (1) for the service world control and the service w	333	 It at privat f visal and c pp.r v I) remain containt at present b vet 8 onts as 1 (2) It at world praint in Table 1 faired from 10 of Intervet ovet in the son propertion; It as average evoid code are stellard to those of it is representable group total of 	prwllrem	in constant at prove it a liferent ores in the	I kvel Scraf e sar e propo ative group at	ant 114 cests per 3 rt on ne 11 at cf U 9 plied	b respective	بو	



CHART! U.S. Production of Silver & the Base Metals 1841-1924



Supplementary Memorandum by Mr Notman

The following figures are taken from the 1925 "Mining Manual and Year Book by W L Skinner, published in London They cover the production and financial returns for the fixed year ending 30th June 1924 of the Burma Corporation Ltd operating very large lead mines in the Northern Shan States upper Burma and the Broken Hill South, Itd , operating large silver, lead, and sinc mines at Broken Hill Barrier Ranges New South Wales Both these companies, so far as I am aware are insured wholly by British capital and constitute major industrial units in their respective localities

In preparing the following table I have assumed that the metals were marketed it the average of the London quotations for the period as reported by the American Bureau of Metal Statistics In converting to dollars I have used the average exchange

as reported by the Federal Reservo Bank for the period

no refraction .							
		TABI	F 1			Net income	
	Prod	act on.	Net cost of eat	Simre	re-it L	bond inter depletion	
Company Barma Lorporation	6 lver Ozs 3 % 11	Load. 113 939 000 Load an l	Per Total lb. \$ Cts. 5 111 985 * 65	Total \$ 3 531 186	Per Ib. Cts 3 06	Total. \$ 3,295 63*	ler Il Cts • 81
Broken H II South	1 236 5 *	1*9 * * 840	base metals. 826 82* 4 64	8*3 96		1 689 533	1 31
proken it il sutti	Innes Lesd	£ *8 063 r nc	£3" 9 per long to	on and alve	er at 66	\$1 cents [er or.

Nore -(1) Average metal prices Lead £*8683 and £2° 9 per long ton and a liver at 68 \$1 cents per or Erchange laken at \$1 (813) Exchange taken at \$1 1913

(*) In the transcept of the accounts of the Broken HILL South apparently no charge for deprec at on had been in a legislate current carnings. It was stated, lowever that £39,000 of the operating income had been appropriated for construct on an IL have see send that the amount would represent a fair charge to deprecat on in arriving at not account before debottoms interest and depict on.

It will be noted that the net costs for lead and zinc, after silver credits are well within the range of those in the representative group shown in Table II of my In the case of the Burm Corporation, which produced over 90 per cent of the Indian silver output for 19-4 the alver credit amounted to 107 per cent of the net moome, while in that of the Broken Hill South it represented 49 per cent net meome, while in the or the order him count it represented to per cent. A reduction in the selling price of silver to 10 cents per oz would have reduced the meome of the Burma Corporation over \$3 000 000 leaving them less than \$300 000 net income, while that of the Broken Hill South 1 td, would have suffered a reduction of \$602 147

APPENDIA 88

Memorandum on the Effect upon the Copper, Lead and Zinc Mining Industries of successive decreases in the Price of Silver which would be caused by the introduction of the Gold Standard in India, by Mr H A C Jenison, Consulting Engineer, Guaranty Company of New York

Introduction

Practically all of the data contained in this Report were collected by the United States Senate Commission of Gold and Silver Inquiry under the chairmanship of Senator Tasker L Oddie (Verada) in compliance with instructions from the United States Senate to determine the reasons for the decrease in gold and silver production and to recommend reme hal legislation should it be necessary Since most of the and to recommend tone and large jart of the American gold production is derived from copper, lead and zinc ores the investigation necessarily included the copper, lead and zinc industries

The writer was the engineer in charge of the mining investigation, and prepired the questionnaire on mining costs and investment in the non ferrous metal mining

1919 23 Geologist in charge of copier United States Geolo, cal Surrey 1923-. Min or Figureer in charge of mining cost investing to yell it vest gation of copper lead zinc gold and a lier US Sanate Commission of Gold and S her Inquiry

Supplementary Memorandum by Mr Notman.

The following figures are taken from the 1925 "Mining Manual and Year Book by W E Skinner, published in London They cover the production and financial returns for the fiscal year ending 30th June 1924 of the Burma Corporation Ltd operating very large lead mines in the Northern Shan States, upper Burma and the Broken Hill South, Ltd , operating large silver, lead and zinc mines at Broken Hill Burner Ranges, New South Wales Both these companies, so far as I am aware, are induced wholly by British capital and constitute major industrial units in their respective localities

In preparing the following table I have assumed that the metals were marketed at the average of the London quotations for the period as reported by the American Bureau of Metal Statistics In converting to dollars I have used the average exchange

as reported by the Federal Reserve Bank for the period

ac suprime								
		TABI	FV				Net incom	
	Produ	et on.	Net cost o	f ead.	S Iver ca	ed t.	bond inte	
Company	Silver Ors 5°8 11	Lend Lb. 115 939 000	Total \$ 3 111 993	Per lb Cts.	Total \$ 3 521 186	Per Ib. Cis 3 04	Total. \$ 3°85 65°	Per Ib Cts • 84
Barma Corporation		Lead an I	het cos base me		8°5 91	0 64	1 689 533	1 31
Broken H'll South	123652 al proces Lead	1*9 * *640 £ 8 065 z nc						

Note — (1) Average metal prices. Lead £ 8655 zm £5° 9 per long ton and a liver at 66 781 cents per cz Ecchanne taken at 58 483.

(2) In the transcript of the accounts of the Broken III. South appearantly no charge for depute at on had been made (2) In the transcript of the accounts of the Broken III. South appearantly no charge for depute at an appropriated for against current earn ngs. It was stated, however that £58 900 of the operating zone a had been appropriated for construction and I have saw much that it a summar would represent a fair charge to deject on in arriving at not recombefore debent me nterest and deplet on.

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1919 23 Geologist in charge of copper United States Geological Sarrey 1923-5 Mining Engineer in charge of mining cost investments yield suvestigst on of copper lead z no gold and silver US Senate Commiss on of Gold and Silver Inquiry

APPENDIX 88 563

The Effect of a material decrease in the Price of Silver upon the Copper Industry

The copper and silver producing group of mines under consideration in the United States represents about 40 per cent of the total copper production capacity of the domestic industry From 1919 to 1924 inclusive, this group produced about 40 per cent of the total domestic production and about 20 per cent of the world's production of copper

I hroughout that period the average production of silver from this group was in excess of 50 fine ozs per ton of copper. The credit for silver per lb of copper has decreased with the decrease in the price of silver from J 12 cents in 1919 to

1 bl cents in 1924

A practically proportionate decrease in the cost of producing copper (due to metallurgical improvements selective mining and production on the most economic scale) and in the selling price of c pper has however resulted in a nearly constant

relationship between the value of copper and of silver produced

lor the entire period under consideration the value of the silver recovered from the mining of copper has varied from 85 per cent to 112 per cent and has averaged 102 p per cent of the total net meone from mining and muketing copper is, the value of the silver recovered from the mining, recovery and marketing of the metals contuned in the silver learning copper ore has exceeded the total profit thereon

I unthermore in the veni 1924 the cost of producing copper by this group was reduced to approximately the minimum which may be reasonably expected under the present and most economic scale of production and yet the value of silver recovered from the copper ores produced was J7 per cent of the ne. income from the operation

Thus the price of silver determines the net profits from the production and marketing of copper from this group as a whole

With the price of copper remaining constant a decrease in the price of silver to about 33 cents per oz would male it impossible for more than one of two of the companies in this group to operate at a real piofit and none of them could withstand a material operating or market reverse without incurring an operating loss Furthermore with silver at 33 cents per oz and with no reverses of any kind this group of companies would only earn about \$5 000 000 apon an outstanding investment of more than \$600 000 000, or about 8 per cent (eight tenths of 1 per cent)

Therefore all of the companies in this group would be mirginal producers and quite unable to earn an adequate return on capital invested ever return the investment

itself, or liquidate nearly \$200 000 000 worth of outstanding bonds A further decrease in the price of silver would be proportionately more disastions With such a decrease in the price of silver there would be two alternatives for the mines of this group-(1) intensite selective mining and (2) suspension of

operations until the price of copper again permitted operations

The state of the copper market for the past seven years has forced upon this group of mines selective mining on a broad scale Highly elective mining however did not yield a sufficient tonnage to greatly reduce the cost In 1924 however increase I tonnage combined with the maximum of selective mining possible greatly lowered the cost of production

Consequently it seems certain that sufficient selective mining could not be practised to compensate for the loss of the silver credit for any appreciable length of Even if sufficient selective mining could be practised to compensate for the loss of silver credit, it would curtail production enormously (thus creating a shortage of copper) quickly exhaust the high grade ores without profit and render the exploitation of the remaining great tonnages of low gi ide ore impossible without an merease in price of copper greater than the loss of silver credit

If operations were suspended instead of being enormously curtailed a greater at operations were suspensed and the price of copper would inevitably increase enough to enable these mines to resume operations as marginal producers resumption of operations by this group would slightly depress the price of copper aguin resulting in exhaustion of ora reserves without profit or would force

In either case the price of copper throughout the world would increase at least 2 cents per lb and these mines would remain marginal producers thus failing to earn

interest on the outstanding investment much less repay it erest on the outstanding investment in copper of about 2 cents per lb and the larthermore the increased price of copper of about 2 cents per lb and the runnermore the increased place of the group of mines into marginal producers through the decreased transformation of this group of mines into marginal producers through the decreased The data collected covered the period 1913-24 inclusive, and are exceedingly comprehensive and complete for all of the principal mining companies, and represent approximately 95 per cent of the productive expacity of the copper industry, 75 per cent of the lead, 70 per cent of the zine, 75 per cent of the silver, and 55 per cent of the productive capacity of the gold mining industry

A very careful and accurate analysis of the records of the companies was made for the sole purpose of determining the facts, and, if possible, recommending sound

permanent solutions of problems of the industry

All of the data were collected under the pledge of regarding the individual companies' records as highly confidential Consequently in this Report only aggregate figures can be shown. The data are the most accurate that could possibly be assembled

Companies included in the Report

Copper Companies

All of the American copper companies whose income from silver is a substantial part of the total income, and necessary to the successful exploitation of silver bearing copper ores, have been included. If it were possible to include an analysis of the cost and production records of all the small copper vern mines of the Western States, the vital importune of silver in the successful operation of this group of copper mines would be more strikingly demonstrated

The productive capacity of the group included in this Report is about 40 per cent. The total domestic productive capacity and the production of the group for the years 1919-24 inclusive was approximately 40 per cent of the total domestic production and 20 per cent of the production of the world. The production of this group is three to six times as large as any additional production which would be made from the rest of the industry without greatly expinding their present plants and equipment

Therefore, any vital change in the conditions under which this group of mines is operating would be transmitted to the rest of the industry in the same or greater

proportions

Method of determining costs

The costs here a shown include all the direct and indirect costs of mining, concentrating smelting, refining and marketing, depreciation and taxes. The costs and income shown is that which has been actually derived from the production and marketing of metals

Non operating income, such as that from customs smelling, sale of power, ient ils, &c, has been excluded, since in all cases the operations are too small and unimportant to be called on independently of mining, and would therefore cease

with the suspension of mining operations

The costs and mecme have been carefully segregated according to metals for those companies which produce large quantities of two or more of the base metals. Where considerable quantities of more than one base metal are produced, and it is impossible to allocate the costs accurately, the secondary base metal has been expressed in terms of the principal metal, according to their respective values. Depletion (return of invested capital) has not been considered as a cost, and no consideration has been given to income from investments.

Lead companies

A very large part of the western lead production of the United States is made by hundreds of small operators who sell their ore or concentrates to the customs smelters. The cost record of this production is not available, or it is too inaccurate to be of any value. Consequently, the cost statistics contained in the tables represent only five or art of the principal western lead mines. These statistics, however, are a sound basis for the consideration of the lead industry, since the production of lead from these mines varies for less with the fluctuations in the prices of lead and silver than does the production from the surfler mines. Consequently, it may be assumed that the great majority of the small western mines, whose aggregate production is so large and so important, are all more nearly marginal than those large mines whose costs we shown herein

Method of determining costs

The methods of arriving at costs, credits, and income for the lead companies are the same as for the copper companies and the data are in all ways comparable APPENDIX 88 ച63

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If operations were suspended instead of being enormously curtailed a greater shorting of copper would result and the price of copper would inevitably increase enough to enable these mines to resume operations as marginal producers. The resumption of operations by this group would slightly depress the price of copper resumption of operations by this group would slightly depress the price of copper again resulting in exhaustion of one reserves without profit or would force suspension

In either case the price of copper throughout the world would increase at least 2 cents per lb and these mines would remain marginal producers thus fulling to earn

interest on the outstanding investment much less repay it erest on the outstanding investment in the rest of about 2 cents per lb, and the luthermore the increased price of copper of about 2 cents per lb, and the turnermore the increased pass of the producers through the decreased transformation of this group of mines into marginal producers through the decreased

value of silver would undoubtedly result in a rapid increase in productive capacity of the large low gilde non silver bearing low cost American South American and African copper mines equal or nearly equal to the productive capacity of this group In such an event this group of runes would soon have to be abandoned

In summary it is concluded that the decrease in the value of silver to 3 cents or less per or would ultimately probably result in-

(1) 1 loss or 2 failure to recover between \$600,000 and \$700,000 of

outstanding investment in these mines.

(2) the loss of several thousands of millions of pounds of copper (5 000 000 000 to 10 000 000 000 worth at present puces \$700 000 000 to \$1,100 000 000) contained in the ore reserves which could not be inined

Lead companies

The most conspicuous development in the donestic non ferrous metal mining industry since the war has been the extraoidinary increase in the consumption and price of lead particularly since 1919. This increase up to 1923 was in excess of 200 000 tons, or 31 per cent and was partially supplied by an apereuse of about 120 000 tons in the domestic production about 107 000 tons of which increase was supplied by increased or new production from the silver lead mines of the west Central States, under the inducement of high prices of 1924 were only able to increase their production 49 000 tons, or 23 per cent over the 1919 figure

The accompanying tables indicate the increase of domestic production according to sources and establish the fact that the marginal lead producers of the United States are the western silver lead mines. It is apparent that on account of the new high level in the price of lead the increasing consumption the tauff on imports and the failure to develop (with the notable exception of one mine in British Columbia) any new large additional sources of lend, that so far as the United States is concerned these marginal silver lead producers of the west do and will determine the domestic price of lead probably at some unknown point below that price where consumption of

lead is restricted by the competition of substitutes

It is impossible to determine accurately the cost of production of a very large part of the western lead because it is sold as ore or concentrates to the smelters and is derived from hundreds of small operators whose cost records are undequate for the recurate determination of the cost of production. The accompanying table showing the costs of lead in the principal western lead mines is however, sound criteria upon which to draw conclusions as to the effect on the production of lead of a large decrease in the price of silver since their production is fairly constant and of low cost

The five of the principal lead companies whose costs are shown for 1919 1920 and 1922 are far more independent of fluctuations in the price of silver than the numerous small ones which sell their ore directly to the smelters. It is a matter of common I nowledge and smelter experience that production from those mines which sell then ore and concentrates to custom smelters viries greatly with fluctuations in the price of lead and silver and it is certain that most of such production was not and could not be made at decreased prices of leal and silver which did not and would

not materially affect production from the five mines whose costs are shown

For the years 1919 to 19 2 inclusive the average cost of lead for the five mines 10 the years 1910 to 10 and the silver credit 4 32 cents per lb of lead, and the net cost of lend was alout 3 J cents per lb These averages include mines with relatively large silver production and mines with relatively small silver production and may be taken as representative figures for the minimum average cost of production of lead in the Western States It is a notable fact that for the three years under conside ation the value of silver produced with the lead by these mines was 170 per cent of the total net income from the operation,

Unquestionably there have been changes in the cost of production since 1922 but in general they have largely increased instead of decreased. The higher price for lead in 1923 and 1924 enabled the large low cost mines (mainly the Idaho group) to increase their production by mining lower grade ores thus increasing their average ocst of production The higher pieces permitted the mines of the Utsh and similar groups to increase their production by about 15 per cent in 1023 and practically 100 per cent in 1924 In this connection it must be borne in mind that extensive selective mining is

possible in the larger mines of this group ind their present production is readily divisible into two classes (1) the low cost half of the present production which was

possible under the furly low lead puces of 1922 and (2) the high cost half of the present production which is possible only under the present high prices for lead and very large credit for silver

In 1921 the silver produced by the Utah group was below the average for the past seven years and yet was from 120 to 300 ozs of silver per ton of lead. The silver ere lit varied for the different con panies from 4 cents to 7 cents per lb and averaged 3 cents per lb which is twice as great as the difference in the price of lead in 1324 and 1922 (2 36 cents per lb.) Obviously with such large silver credit and the implifix of this group to produce more than one half of their I resent production with lead at 1922 prices (5 7 cents per lb) most of their income if not all of it as a group is still derived from the value of silver. In others the average credit for silver per lb of leid in 1994 for this group of mines was 5 3 cents per lb and increase in 1924 prices for leal over 1922 was only about 2 36 cents. Therefore a decrea o in the price of silver to 35 cents or less per oz (the price of lend remaining constant at 8 cents) the pr duction of this group would be curtailled about of per cent (the 1922 rute of production) or about 35 000 tons. Similar curtailment for the rest of the Western States would be inevitable and would total at least 70 000 tons since the smaller Colorado Nevada Arizona Idaho and Montana mines are equally if not more dependent upon silver

Such curtailment of production would result in a shortage of lead and an increase in the price of lead sufficient to restore this production to the position of marginal production or in increase equal to loss of silver credit about 3 cents per lb of

ierd

Mexican mines which supply the principal part of the imports of lead into the United States are even more dependent upon silver for the successful operation even at the present high price of lead than are the most of western domestic mines Representative Mexican nines and cate that the minimum silver recovery per ton of ng lead roduced varies from 150 to 300 ozs per ton of lead indicating a minimum credit for silver 1 er pound of lead of from 5 cents to 6 6 cents 1 er lb

This lead could not be produce I and imported into the Unite I States without an even greater increase in the price of lead than that necessary to permit of the western domestic mines to operate The imbility of this class of Mexican mines to operate cents to 5 cents per lb of lead would mevitably without a credit for silver of result in a still greater shortage of lead and a rise of price to such a level that even these marginal mines co ld supply the additional quantity of leal necessary to meet

An increase of about 3 cents per lb would make lead about 11 cents per lb a price which has been nearly equalled several times in the last two years vien the silver lead producers had normal credit for their silver It is consequently believed that the subsequent decrease in price of lead was not due to the competition of substitutes, but due to increased production and satisfied demand

Therefore it is entirely reasonable to believe that a decrease in the price of silver to about 30 cents per or would result in an increased price of lead of at least 3 cents per lb thus adding an additional cost of \$15 000 000 per year to the present cost

of lead to the consumers at the present rate of consu uption

Furthermore such an increase in price of lead would greatly stimulate production from the non silver bearing domestic lead mines and the low cost foreign mines such as the Sullivan mine in British Col imbia. If these mines are able to produce in additional 70 000 to 150 000 tims of lead (the minimum sum of the domestic and Mexican production greatly affected by a decrease in the price of silver) the American and Mexican production which would be marginal with a decrease to 30 per cent pet oz of silver and increase of 3 cents per lb of lead would be permanently per oz or suver and mercaso of orems per and the mines could not be operated marginal without decreasin, the price of lead and the mines could not be operated at a profit.

Zinc mi ies

The zinc mines of the Western States with the exception of three or four are small more or less intermittent producers of copper lead zinc gold and silver and were more or less marginal under any conditions until the recent successful development of selective flotation

During the period 1919 22 inclusive three of the principal western zinc mines nade an average production per year of about 113000 tons of zine at a cost of approximately 6 cents per lb with an average credit for silver of about 2 00 cents per lb making a net cost of zinc slightly less than I cents per lb. The credit for silver represented more than 100 per cent of the net income from the operation.

Fig. 1. The increased selling price of zinc his resulted in an increased cost for many of lower gride ores but the proportion which the value of silver ins borne to the net operating income his remained nearly constant thus contributing the principal part of the profit derived from this operation.

Most of the e mines under the present conditions can operate for 10 to 20 years, restricting the mines in the Central States probably cannot maintain their present rate of production for more than five or say years without most unexpected discoveries of new zine fields in the Cutral States. Year active development and prospecting in zine regions of the Central States in the last few years has not resulted in the discovery of any new fields or in greatly extrading the present ones some years at least such zine nines as most of those of the Western States will be marginal mines and consequently will largely determine the price of zine. Has determination of price is a function of the price of silver must be compensated for by a corresponding increase in the price of silver must be compensated for by a corresponding increase in the price of silver must be compensated for by a corresponding

However it is not believed that a decrease in the price of silver to 35 cents or less would result in an increase in the price of zink of more than a cent or a cent and a half per lb, but this increase would be essential to those western mines, and it is essential that they continue to operate since they are the only mines on this continent with long assured lives that is, with very large developed and potential ore reserves.

Complex lead zinc ores

The fullire of two years of more or less active prospecting to reveal an large new lead or zinc districts and the increasing demand for lend and zinc has concentrated attention more or less successfulls on selective floation and electro-thermic production of complex lead zinc ores which, together with the high price of lead and zinc and the large credit for silver has made available millions of tons of complex lead zinc ore. So far as can be determined at the present time, the increasing dimand for lead and zinc must be satisfied largely, if not mostly, from such complex rors. In Urth, several years' experience with selective floation of complex lead zinc ores indicates that the average credit for silver is about \$6 per ton of or treated. This is understood from confidential sources to represent at least \$0 per coat of the profit of the miner of such complex lead zinc ores of such complex lead zinc ores in the price of silver would make the treatment of most of such complex lead zinc or is unpossible without a corresponding increase in the price of feel and zinc.

Custom smelting and refining companies

The principal profit derived from the custom smelters and refiners of lead in the United States is from the price margins on metals the recovery of more metal, particularly silver than is paid. But its, the principal profit is derived not from treatment charges but from buying the lead and the silver in the ore or concentrates at the market price, recovering more metal than was paid for and selling them (the metals) at a higher price than the purchase price. Since the credit of silver in customs ore varies from 2 cents to 25 cents or 30 cents per 1b of lead product d, a material decrease in the price of silver would unake such custom operation impossible without a great increase in the price of lead. Losses which the customs smelters and refiners would sustain from a decrease in the price of silver would ultimately, of course be transmitted to the miner, but the result would be the same in an ease—a large increase in the price of lead. If the price of silver continuously decreased, it would be nearly impossible for the smelters to priv the miners for their silver without sustaining serious losses since under the present system the miner is paid for his ore concentrates on the basis of the quotations of merula in New York as of the day on which the ore or concentrate arrives at the smelter, and the smelters would be forced to sell the silver at a future unknown but lower price. The loss due to such decline would have to be sustained by the smelter, or an entirely new system of settlement developed. In any case, the situation would be chaote for some time.

Silver mines

No effort has been in the to show the costs of silver from the straight silver mines, such case, on account of the varing conditions of the silver market for the past seven year, it is impossible to illustrate average conditions

Until the expiration of the Pittman Act, costs per ton of ore were sacrificed in order to make a large production, and since that time highly selective mining has been extensively practised in order to effect the decreasing value of silver. Consequently, the costs records alone are insufficient data upon which to base an opinion

It is certain, however that even at the present place of silver, but few silver mines are making much profit, and it is even more certain with silver at 33 cents per oz or less that in a very few years (four or five at the most) the silver production from this group of mines would be nearly negligible.

SUMMARY

Copper

The decrease to 35 cents or less per oz of silver would in all probability result in an increase in the price of copper of about 2 cents per lb, a loss of some \$600 million invested in the copper silver mines of the west, replacing of their production by foreign production and the loss of 5 to 10 thousand million lbs of metal contained in the ore reserves of these mines which could not be successfully operated under such conditions.

Lead mines

The result of such a decrease in the price of silver so far as lead is concerned would in all probability be primarily and principally that of increasing the price of lead about 3 cents per lb and making the silver lead mines of the west marginal producers, thus rendering it impossible for them to earn interest on the investment or to recover the outstanding investment

Zine mines

The decrease in the price of silver to about 35 cents per oz or less would probably be reflected merely in an increase in the price of zinc of a cent or a cent and a half per lb, the loss of part of the zinc reserves of the west and the more rapid exhaustion of the comparatively short lived reserves of the Central States

Complex lead zinc ores

Until the increase in the price of lead and zinc offset the loss of the value of silver, the necessary production from the complex lead zinc ores would be cut off and their general availability be postponed and increased in cost

TABLE 1

Mine Production of Silver in the United States and the number of Fine Ounces and Percentages of Production derived from the Principal Classes of Ores *

1914-24 Calen lar Years

(In th usands of fine ounces)

lesr Total pro	l lacers	Drv a 1 s l cious ores.	Copper	Leal	/inc lea	er lead, copper I zinc res
1914 69 623 1915 2144 1916 78 936 1917 78 936 1917 98 939 1919 34 939 1919 61 703 1929 61	155 0 °1 1°6 0 16 118 0 17 90 0 13 78 0 15 °2 0 13 81 0 18 61 0 10 38 0 08 51 0 08	One total 2-81-39 85 25 10 35 53 25 10 35 53 21 49 50 41 11 1565 31 65 19 04 8 36 9 9 4 8 36 9 9 4 117 5 9 05 863 46 78 9 63 39 23 20 35% 31 8°	18 81 °5 96 *4 541 31 75 10 314 °8 75 *0 463 30 0 12 881 24 8* 1* 151 *1 49 4 783 10 3* 10 3 6 16 9 14 684 208 36 325 °5 50	Oza Cota Cota Cota Cota Cota Cota Cota Cot	Oza total Oza, 1436 1 136 1 37 "34 1 136 1 37 "34 1 174 1 61 333 350 0 78 443 136 0 0 88 "2" 1,25% -43 6 0 6 2171 3 05 1 148 148 148 148 148 148 148 148 148 1	0 33 6599 9 6 0 68 8.57° 10 8 0 61 8645 1° 1° 0 33 7°90 10 7 1 18 485 6 5 0 97 1953 4° 1 1 19 4315 6 2 1 64 °18 11 °

^{*} As reported by the U.S Ceolog cal Survey-19 . Sgures are not vet ava lable

TIBLE 2 World's Production of Copper (In start tons-2000 IL)

	(In 8/ m	rt tons—900	016)			
	1913	1970	1921	1972	1923	1924
North America						
Umted States	604 642*	635,248*	236 000	493 853	735 702	793 34
Mexico	G6 661	49 866	13 576	29 842	CO 538	49 15
Canada	39 787	39 121	22635	2a 300	40,230	51 00
Cuba	10 3 11	7 191	8,100	11 488	11 %3	
Total North America	722.0%	731 776	2\3 9>	5,8900	Not 733	331.00
South America						
Bolivia	7 714	10 910	10 674	10 154	11.744	8 20
Chile	87 721	101045	65,29+	149 830	201 042	20 / 85
Peru	43 94 3	36 356 1	36 (89	40 133	45 684	38 49
Venezuela	100	-	100	1 075	1 175	12:
Total South America	131 179	156 341	113 469	194 192	212 645	257 7
Europe						
Austria Hungary	713	1744	4 600	5.050		
France	962	1718	2315	3 950	5 3 ? 7	4 40
Germany	17 354	19 015	20 344		9 0.11	5 51
Jugoslavia	1,332	2154	4 376	18 739	18731	21 49
Norway	1,149	613	6 111	2131	7 536	5 97
Russia		_013	0 111	10.59	8 816	10.91
Spain and Portugal	18c Zu	25 353	36.596	220)	2 20)	310
Sweden	4 412	1 193	1 465	40 >34	o7 11 s	60 71
Total Europe				67	5 160	30
•	€ 596	52 423	76 684	85 848	113 91)	11870
Asia Japan	1		i			
Other Asia	56 465	74 (27	53 62(59 66 3	70.316	69.34
Other Asia	1 005	593	1,250	111	810	137
Total Asia	8, 560	75 370	LO J06	60.8%	71 120	70.75
Australasıa	18 118	21327	20 869	13 754		
Africa	31 518	33 708	49 201		13 995	10 71
Other countries	4 409	3.07		22 17	80 410	114 70
Grand totals			3 307	3 30	3 307	4 40
• In the case of U.S. figures for 19 are actual production by m nes	1 009 918	1 08% 652	PON 3PO	99ა 04ა	1 418 163	1 514 01

copper while figures for 19°1 192° 19°3 and 19 4 re actual production by m nea

1028

12 05

1 88

13 93

Vierage, 1923 21

Tilbil 3 -Copper Companies.

	1	course of Cast factors alleger crade factors of radio of electron factors for the	to not proceed to	1b Cts per lb Cts, per lb Recent 111 3	11 107	12 73 1 11 11 18 00 7	50 × 50 13 131 102 5 1 5	21 10 11 1 1 18 12 15 102 3		
RECALITOT ATION		ing expense			25 25		13 101 181	10 191 716		
=	1		All metals.	\$ E E	80.77	, z	47,913	14,277		
		Inco ofmn n tale	Slare	1352	120	1.	C1 177	22 528		
			Copper	2C 119	353	77 187	190,331	116 143		
	I reduct on.	I roduct on.	I roduct on.		y liver	1 000 ozs	12278	9	(8 312	10.4.33
		-		Short tons 217,272	217	2 16 009	1300 011	509 619		
			C pive	1000 lbs.	_		2610082	1193 338		
			Jest Test	C161	122	1924	All years	1921 & 1924		

		I repressonate val o of allver to net inco ne	Percent, 6.17 9 178 - 17	196 5
	1924	Set e at of copper	Che per 1b 11 412 11 613 12 613 12 620 12 620 10 510 11 510 12 821 10 820	11 363
	10	Siver ere lit	Cts 17c7 Ib 22.77 Ib 22.78 Ib 22.88 Ib	1 (11
		Cost of expose	Cts 1 et 1b 14 or1 13 or1 13 or1 13 or1 14 887 14 887 18 207 18 207 18 207 18 207	12 179
1 SILVER		I report enate value of a frer to net ince me	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 0
PROPORTION OF INCOME DERIVED PROM SILVER	1023	Net cont of	04 1et lb 11 12 110 112 110 113 870 11	12 720
		S fror ered t	Cts per 15 1 774 1 1 774 1 1 774 1 1 774 1 1 772 1 1 7 7 7 7	2 139
PROPORTIO'		Cost of copier	Cts per 1b 16 29 1 13 125 14 932 16 257 16 257 16 257 17 968 18 968 11 281 18 486	14 849
		l roportionato value of aliver to net i co ne	Per cent 155 % 115 % 111 1 111 1 111 1 110 0 800 4	115 0
	1922	Net cont of repper	Cts per 1b 11 112 11 526 6 525 8 850 14 652 20 483 13 246 9 460 11 952 11 952 11 952	11 689
	19	b iver cred to of cot per	Cle 1 er lb 1 (78 2 887 1 2 887 1 2 887 1 632 654 4 745 1 679 1 679 1 679 4 391	2 418
		Cost of colper	Cta. per 1b 12 740 12 740 14 744 14 794 17 794 17 794 17 794 17 794 18 704 15 704	14 107

TABLE 4 -Conner Companies

$\neg \neg$		lver at	50 cents	an or	\neg	8	lver at 3	3} ce t	g An ux			lver at	10 cents	so na	
-	Fil er ncome,	Decrease a to 4 noome	\ct income.	Coppe ore t	N t con of cop r	F •	Decroved in f o c.	Net i #	Co red t.	colt bet cort [Fi er Incon e	Perrense in pet in vere	Net moorie	Copper ered	trant con Per
1923	\$ 800 575 413 94	\$ 600 1 0 254 59	\$ 000 94° 81° 515	35	Cts 14 9° 12 9 1 78	\$ 000 383 275 67	\$ 000 36° 48°	\$ 000 *86* 6 4 483	65	Ct# 15 38 13 11 1° 90	\$ 000 113 83 19	\$ 000 630 394 13°	\$ 000 554* 482 44* 145*	Cts 20 07 14	Cts 16 0 13 3 13 0
	1 017 4 159 160 255 93 1 063 270	591 2 662 90 163 59 680 173	1 033 10° 10° 10° 197 4 409 211°	1 86 64 1 69	14 75 14 19 14 86 1 20 13 34 10 19 16 37	678 2 3 93 170 62 08 180	930 4 048 137 947 90 1 035	330 353° 57° 259° 166 4 054 301°	1 °7 43 7°	14 48 14 88 16 31 16 9 13 55 10 56 1 07	*03 *83* *8 51 19 213 54	1 405 5 989 96 367 133 1,530 389	2,294* 1°° 400* 1°3 3 559 4°	61 62 67 13 2 3°	14 7 15 8 16 5 17 13 8 13 6 18 1
Total	8 97	4,913	7 113	1 33		5 384	808	4 4 00	89	13 97	1 615		635	27	14 5
19 4	250 407 89 3 4 173 298	85 137 30 259 1 400 99	37° 555 80 1 065 4 184 109	9 35 57 1 75 7 16	11 95 12 98 12 48 11 13 17 73	167 271 53 515 2 8° 198	168 * 3 60 517 2 91 199	1 0° 419 30 808 13	65 93 38 1 17	13 51 1° °7 13 10 12 67 11 1 12 95	835	463 101 8 + 39	*37***********************************	19 0 17 30 43	10 1 13 0 10 1 12 5 13 8
	15° 84 916	51 28 307	711 2 1 829	* 65	13 04		56 613	26 30 1 5 3	62	11 45	183	1 3 9.5 1 040	333 59* 1 096	19	17 13 1 11 8
Total	7 140	2 398	7 491	1 21	11 7	4 60	478	3 111	80	1 18	148	R 110	1 9	*6	1
All vears (1919 0 * 23 & *4).	34 526	2# 865	30 711	1 31	13 84	27 837	36 554	19 0*	8	14 8	6 851	12 540	3 938	26	14 (
1923 & 19 4	15 91	7 311	14 604	1 *7	12 66	10 144	12 384	9 531	85	13 09	3 943	19 485	2 430	95	33 4

TABLE 5 -Copper Mines Copper at 14 cents an oz

	Ac	tual	Sive	er at 50 ce	nts an oz	S re	r at 33} co	nts an oz	Blve	r at 10 ce	nts an oz.
Yω	coet o dive E	A erage Average coppe product		A crage	To al 4 coret da produ o	T Ag 30 Te cred t,	4 teles	Total theoretica pro-s tion,	trerage	Average set out.	Total theore load pred c o
19 3 and 10 4	13 23 52 13 99 95 14 57 2 87 15 68 3 18 18 14 2 95 13 84 96 11 16 1 52	Cts 1 000 1 13 3 11 89 11 3 04 11 70 8 5 12 5 19 12 88 10 64 11 6 74	97 35 00 1 91 er 2 14	12 37 12 88 13 36 12 66 13 50 16 14 13 19 10 14	deel no	65 *3 14 1 28 1 40 1 34 41 67	Ct* 16 44* 1° 69 13 00 13 55* 13 °9* 16 23* 16 80* 13 40* 10 49 16 41*	1 000 lbs Copper 185 000 Siver 02s 980 Picent decline Copper 72 Siver 80	07 13 38 43 35 13	Ct# 14 P6* 13 14* 13 16* 13 16* 14 19* 15 25* 17 9* 17 71* 10 95 18 1 *	1 000 lbs Coppe 100 000 Siver oxs 19 8 Per cent decline Coppe

* Loo high cost for profitable sportions with copper at 15 cm s per 15 (Margin between sales per 6 and cost necessary for such operation assumed to be at least 1 cent per 15)

TABLE 6-Smelter Production of Lead from Domestic Ore All m nes in this group are producers of a lve lead one

	1919	1929	19 1	19	19 3	19 4	Per cent ncresse 1923 o er 1919	Per cent. nerease 1974 o et 1919
WESTERN STATES.	1	1	T	7				
Alaska	645	591	3	3 4	400	589		
Artzona	3 407	5 987	3,313	7,218	888	93 "	-38 0	9
Cal foru a	2 604	9 60	614	3 018	5 169	2 305	+63 3	+ 3
Colorado	18 967	17 75*	12 104	21 108	23 885	2 305 25 491	+157 9	+13
Idaho	89 001	117 191	99 07	91 487	197 797	193 09	+76 5	+35
Montana,	17 513	33 231	21 585	14 553	18 345		+43 4	+35
Nevada	5 958	8 650	3 553	4 264	2408	21 2 6	+48	+**
New Mexico	1 418	1 123	384	1 230	1635	800	+35 0	+3
Texas	8	1 1	***1	5	40	2 263	+15 5	+5
Lah	63 10	64 086	51 872	63 130	104 678	7°	+308 B	+33
Wa h ngton	1 890	9 460	3°5	4.8	008	119 318	+60 8	+8
-						2 057	+84 *	+64
Total	207 103	233 75	184 *11	198 813	200 831	314 490	+45 3	+5
EASTERY STATES							T 13 3	
I no s	97	948	971	50			i	
Kansas	951 l	8 621	10 939	30 909	3 86 90 07	1 089	+31.6	+11
Kentucky	63	114	61	3	66	12 895	+154 1	+6
M scours	150 341	171 939	151 0 8	20 245	16933	01	0 5	+14
Oklahoma	49 984	68 494	46 96"	67 436	59 60	191 581	+17 8	+.
Te nesse	231	° 05		51	1 020	26 611	+19 2	+1
W sca s ⊓	395	3 841	109	133		995	57.0	51
Total					601	1 973	84 9	-51
Crand Total	4°2 85	56 52*	°10 °60	83 4 8	*5* 105	261 661	+16 9	+**

į				Prod	nction o	Production of Lead and Silver from principal Western Lead Silver Mines	id Silver	from pr	neibal	Western 1	lead Sily	rer Mines					1
-	1919		1920		10		13		8701		86	1934	John L	3	Rato	Lkid	Lal
h E H	I roduct o	S er produ t on	Lal	25 F	Levi	S Iver	Lend	2	I cad		L ad	5 lver	Lend	S lver	1 o 1		10 4 1913
	3 423	283 245	****	906 918	3 975	11 4684	640	1 637 240	50 53	1 084 977	3 303	958 141	0.010	5 69" 566	18 9	8 091	1111
	1 300	* 757 533	6 359	622 132	6 248	3 62 211	9 899	\$ 437 633	13 *49	6 9 9	10 016	336 417	20 62	13 641 148	335 6	343 1	2
	1 126	817 161	20 811	1 161 614	1 409	17 3 02	28 157	1 4-7 99	93 68	1 681 334	37 03	1 6 9 304	1 9 894	8 420 564	t- 12	178	11 U
	1* 363	705 0 B	16 859	0 3 453	19 548	1 0.5 7*	1 43	110458	1 888	62 908	10 882	1 93 861	19 805	5 801 307	4 110	•	8 0
	1	1	ı	1	ı	1	283.0	1 000 418	10101	3 345 33	11	113 8 1	2	2 668 068	131 8	ı	ı
	154.01	5 63 8	\$ 30	0 0 0 7	3 13"	* 0 144	- 8	1 008 3	13 501	1 5 135	1 30	\$51.364	\$3.069	605 393	13 0	140 7	9
	3 080	18910	8 758	2 194 3 3	100	228 911	20 ×	177 0 9	0 05	36 819 5	7 9	405463	299 0	1 4 348	9	588 9	4 29
_	32 98	1 107 213	35 536	1 104 478	37 189	1 947 667	34 713	1 154 843	34 870	117 (31	30 475	173 007	11 550	8 054 81.5	38 1	5	:
1 1/4		N 418 003	02 880	9 631 00.5	103 30	11 468 867	1 0 J83	133010 3		141 101 10 440 467	100	16 147 48	10	74 09 642	366 49	100	2 -
				Prc	duction	Production of Lead and Silver from principal Lead Silver Mines in Utah	nd Silve	r from p	legran	Lead Silve	er Mines	ın Utah					
	 -																
	5			0000018	2.5	1124 84	10.0	0	2020	1 084 07	2 3 6 5	956 141	010 1	000 600	2 1	s :	
	1		1		1		200						2 2	200	; ;		2
	2 431	8 328	6 392	· ·	3 193	450 144	8 51	1 068 753	13 501		17.39	. 551 105	639 53	7 005 393		143 7	1 =
	3 080	18910	6 7 5 8	2 194 373	8 09	2 584 977	8 93	• 177 029	3,0	3 614 94	76 .	+ 0 0 +63	299 0	16 425 306		6 50	
r hie	1181	3 698 5 3	2 674	£ \$2 \$20	19 064	7 441 915	36 Kb8	0 810 4 3	63.63	11 92 49	88	12 *61 4 8	7 230	5 43 415	20 7	:	473 7

TABLE 8 Lead Companies.

						Lega companies.	dipantes.							
			 	4	Income from metals		Operating expense, in	Net	Cost per 1b	Silver credit	Not cost	Oze silver	Uze silver Proportionate	
ļ		Lead	Silver	Lond	Silver	Total	cluding deprecis		of lead	lead	lead	of lead.	вет эпсоше	
	1,000 15#	Slort tons.	1 600 026	\$ 000	890 \$	000 &	040 \$	8 op#	Centa 7 725 80 237	Cents 5 448 25 545	Cents 693 778	5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1,046 728 4 0	
1019									32 870	3 134	2010	593 8	354 0 Lota	
	190,.09	54,650	7777	170'0	5,329	11 590	9,579	7,611	8 784	\$ 876	3 888	8 88	0 992	
029									21 6 837 6 844 20 132 8 055	21 11 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 52 52 52 52 52 53 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 54	2000 2000 2000 2000 2000 2000 2000 200	
	133,013	66,507	5,403	808'0	\$ 055	16,053	11,898	4,155	\$ 50.8	152.	769 7	811.3	136 1	
200									13 406 13 406 15 43 15 625	1000	1 4 0 1 0 8 0 1 0 8 0 1 0 8 0	00040	0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	150 181	15,001	1,671	8,372	880 5	14 659	10,771	3,838	7 172	2 242	3 185	8 8 8	156 1	
Gran I total	292 493	196248	16 818	17,572	16 973	42,302	32,248	100.01	27.20	1 324	3 802	85.7	169 7	

1	Lead	Copie	Copper expressed in	Total production	Silver	Inco	Income from metals	i i	Total	Operating	7 7	Costperib Silver	Silver	Net cost	Net cost Oza, salver	Per cent
- 1			lend lend			Lead	Lead Copper Silver	Silver	исоше	expense	meome	ofkad	th of lead	lead lead	of fead	
	1,000 lbs	1,000 lbs.	,000 lbs 1,000 lbs. 1,000 lbs	1 000 11.9	,000 oza.	900\$	000 \$ 000 \$	900	000 \$	900	000 \$	Cents. 5 23 7 99	Conts	S 2 2	155	503
												10 0	6 28		188	357
	138,726	31,336	86,963	225 620	19,160	4,236	2,683	10,041	16 963	14,400	191 0	80 1 17 1 108	3.	1 98	170	801

Typical Mexican Mines.

TABLE 9 Zinc Companies

			Inco	me from	n etals.	Total operat ng	Net	Cost	Silver	Vet	Proper tionate
lear	Zne	S iver	Zinc	S lver	All metals	includ ng deprecia t on and taxes	operating income	per pound of 2 nc.	per pound of zinc	cost per pound of 2 nc.	value o e lver t net income
.919	1000 ibs	1000 ozs	\$ 000	\$ 000	\$ 000	\$ 000	\$ 000	8 646 4 416 8 10			
1970 {	201 950	5 096	9 691	4 509	14 870	12 667	4 403	6 18 9 504 4 827 6 59	2 20 1 821 0 94 2 37	1 98 7 653 3 887 4 22	102 341 (1
1922 {	243 022	4 966	15 183	4 908	20 023	16 055	3957	6 606 10 719 3 339 4 77	4 774	5 945	424
{	231 276	6 392	10 503	5 414	15 939	11 830	4 628	J 115	1 176	3 439	118
1919 1920, and } 1922	679 248	16 454	35 379	14 161	50 831	40 552	12 998	5 970	2 085	3 895	109

TABLE 10

Probable Production of the World made unprofitable by successive Decreases in the Price of Silver.

Price of silver	LEAD Short tons	Per cent of world production
50	97.000	6.7
	160 000	10 8
$33\frac{1}{3}$		
10	383 000	26 2
	World's production 1924 = 1,4	57,000 tons
	COPPER	
Price of silver	Short tons	Per cent of world production
Z I I CO CE DIT I I		
50	100,000 in U.S. No estimate made for foreign	6.7 from US No estimate for foreign

production

		00
$33\frac{1}{3}$	400 000	27
10	400 000	27
10	World's production 1924 - 1,500,000 tons	3

production

TABLE 11

Probable Percentage of Silver Production of the World made unprofitable by successive Decreases in the Price of Silver.

Price of silver cts per oz	Dry and spiceous ores	Ores	0168	Total
50 331 10	16 50 100	26 80 87	25 36 75	20 58 79

Probable Silver Production in the World made unprofitable by successive Decreases in the Price of Silver

Price of silver	Millions Dri and siliceous ores	of Ozs Tine Copper silver ores.	Lead-silv	er Total
50 331 10	15 75 94	13 40 44	19 25 52	47 140 190
Total	al world's productional silver accounted f	n - or -	: :	240 220

APPENDIX 89

Letter from Sir James Wilson, KCSI, to the Secretary to the Royal Commission on Indian Currency and Finance, dated Annieslea, Crieff. Perthshire, the 8th September 1925

Three the honour to submit for the information of the Royal Commission copies of (1) a paper on Indrin Currency and Lychangs, which I read in Februari 19:25 to the Leonomic Society of Ldinburgh and (2) an article on 'Indian Currency Policy which I am sending to the Assatic Review in the hope that the calculations I have made may be found useful

Paper on Indian Currency and Exchange, by Sir James Wilson, KCSI, dated 31st January 1923

It is with some diffidence that I venture to address this Society on such a complicated question as that of Indian Currency and Exchange I cannot claim to be a financial or a banking expert and it is only as a humble student of economics that I approach this subject which is of immense importance to the prosperity and welfare of the millions of India I traperist to me that the safest basis for the study of such a subject is to get hold and to keep hold of statistical facts so as not to lose oneself in the clouds of theory and I must ask you to bear with me while I put certain figures and calculations before you

The Paper Pound Sterling

In this country we are accustomed to see rates of exchange quoted in sterling For nearly a century before the outbreak of war in 1914 a quotation in sterling in eant a quotation in sovereigns or frictions of a sovereign because ill legal tender bank notes were freely convertible into sovereigns, which could be exported without gold dollar contrains 25 22 grains so that a sovereign exchange for 4 87 gold dollar contrains 25 22 grains so that a sovereign exchange for 4 87 gold not vary from this par rate by more than a small fraction above or below the cost of trusporting gold from one country to the other whitever the balance of trade might be And as a matter of fact for many years up to that date the lowest point in the rate of exchange between London and New York was 4 77 dollars to the pound—a difference from pair of a little over 2 per cent

Immediately after the outbreak of war Parliament passed an Act authorising the issue of one pound Currency Aotes and making them legal tender to the same value as a sovereign. The export of sovereigns from this country was at the same time forbidden except under special permission from the Government. The effect of these provisions which are still in force was to male the Currency Note practically inconvertible into gold for the purpose of international exchange, and as a natural consequence the value of this practically inconvertible paper currency varied mainly according to (1) the relation between the den and for and supply of the notes and (2) the ideas of financiers (including bankers merchants and investors all the world over) as to the prospects of an increase or decrease in the note issue and of the Currency Notes a am becoming freely convertible into a sovereign. A credit in sterling therefore no longer meant a command over so many sovereigns but only a command over so many currency notes and the value of sterling in international exchange became subject to violent fluctuations. The best measure of those fluctuations is the rate of exchange with New York because the United States have managed all through to keep their notes convertible so that a credit in dollars has all through meant a command over so n any gold dollars Another measure of the value in gold of the British paper pound has been available since 1919 when the Government granted permission for the sale of South African gold bullion in London with freedom to export The two bases for an estimate of the value of the British paper pound in gold necessarily correspond closely day by day

I append two statements (1) giving the actual quotations on certain dates of prices and rates of exchange bearing on this subject and (2) the corresponding values in grains of fine gold or of fine silve calculated on those quotations. All through the real basis of international exchange has been and continues to be gold so that the common measure to which attention should be specially directed is the value of the different currencies in grains of fine gol 1. I take as one of my dates dist

APPENDIX 89 575

January 1920 because it vis imme listely after that dite namely on 2nd l'ebruary 1920 that the Secretary of State for India made his momentous announcement that he would aim at giving the rupes i fixed value in exchange of one rupes for 11-3 grains of fine gold—that is one-tenth of the gold content of the sovereign. As the latest of my dates I have given the quotations for '1st January 1923 exactly three years after and by way of comparison to show the changes which have taken place during the last 12 months. I give the quotations for the corresponding date in 1922.

On 31st January 1920 the value of the British paper pound sterling as shown both by the rate of exchange with Ven York and by the results of the sales of gold in London with freedom to export was at about its lowest being then equivalent to 82 gruns of fine gold—that is 72 per cent of the 113 grains contained in a sovereign—in other words it was worth only 14s 5d measured in gold. The British Government had on the Report of the Cunlifie Committee declared its intention to restore the free market in gold in London which would necessarily lead to the restoration of the paper pound to the value of a sovereign and had tallen practical steps to male a gradual reduction in the quantity of paper currency outstanding which again would necessarily tend to an improvement in the gold value of the paper currency unit As a result of that policy by 31st January 1922 the value of the paper pound had risen to 90 5 grains of fine gold equivalent to 83 1 per cent of the gold in a sovereign and during the list 12 months there has been a further und gold in a societies and during the 188 12 months there has been a further improvement until on 31st January 1923 the price of gold in London give the paper pound the value of 108 1 gruns of fine gold which is 95 7 per cent of the 11, grains in a sovereign—an improvement of 8 6 per cent in the last We are now therefore within o per cent of seeing the pound sterling valued in Loudon in New York and therefore all the world over, as equivalent to a sovereign One of the chief reasons for this marked improvement which has a great effect in reducing the sterling prices of all articles imported from abroad and of all articles produced in this country which have to compete with them has been the reluction in the quantity of Currency Notes outstanding For instance on 31st January 1922 the quantity of Currency Notes outstanding was £303 million and by the corresponding due this year it had been reduced to £279 million— A further reason is the increase in the ratio of gold reduction of nearly 8 per cent and bink notes held is a reserve against the currency notes to the total issue from 16 S per cent on 31st January 1,122 to 17 3 per cent on 31st January 1923. The chief reven, however for the improvement is no doubt the growth of confidence throughout the world in the determination and ability of the British Government to restore at an early date the value of the legal tender currency note to that of a sovereign In judging of the true meaning of the quotations during recent year it is necessary to bear in mind the changes in the value of the sterling in which they are quoted and the sumplest plan is to reduce all such quoted prices to terms of grains of fine gold

Indi in Currency before the War

For nearly a century the principal legal tender in India has been the silver rupee weighing 180 grains and containing 160 grains of fine silver. Up to the year 1873 the world ratio between gold and silver remained in the neighbourhood of 1.0 o oz fold and the quoted price of standard silver in London remained in the neighbourhood of the corresponding rate of 60 % per oz remained in the neighbourhood of the corresponding rate of 60 % per oz that this standard silver is 90 fine—that is to say, 1100 ozs of standard silver recontain 925 ors of fine silver so that this London price of standard silver ment a price of 65 7d per fine oz At that rate the value in gold of the 160 grains of silver price of 65 7d per fine oz At that rate the value in gold of the 160 grains of silver contained in a lupee coin was in London 22 6d and the exchange value of the contained in a lupee coin was in London 25 6d and the exchange value of the thing of the figure—not far short of 2s to the rupee so that it became a general idea of that figure—not far short of 2s to the rupee so that it became a general idea of that the rupee was worth about one-tenth of a pound which would make it worth

11 3 gruns of gold

About 1973 Genmany's demonstration of silver and action taken in America
and other countries let to a sulden increase in the world's demand for gold and
indicated in the world's demand for silver. This caused a rapid fall in the gold
diminution in the world's demand for silver. This caused a rapid fall in the gold
diminution in the world's demand for silver. We saw 30 ozs of silver instead of
value of silver until in 190? an ounce of told would buy 30 ozs of silver instead of
15 5 and the price of standard silver in London fell to 24d per oz at which rule
15 5 and the price of standard silver in London fell to 24d per oz at which rule
the first part of this period while the Indian Units remained open and the rupee
the first part of this period while the Indian Units remained open and the rupee
was thus still linked with silver the exchange value of the rupee necessarily fell with

the fall m the value of the 165 grams of silver contrued in it until in 1892 the rupee was worth only 15d instend of the traditional rate of 24d. In 1893 however, the Indian Mints were closed to the free courage of silvir, and for some years practically no addition was made to the number of rupee come in existence, while the demand for them increased with the growth of India is prosperity and trade, so that the value in exchange of the rupee come was no longer determined by the value of the 165 grams of silver contained in it but, after falling to 13d in 1894, steadily increased until it was subulsed at 16d per rupee, or Rs 15 to the sovereign at which rate it remained until after the outbreak of war, although the value of the silver contributed in the wint down to less than 9d in 1909. The closing of the Mints had thus resulted in unlinking the rupee from silver and the success of the action taken to stubilise the rate of exchange at 16d meant that the rupee was now a token com linked with gold at the rate of ik- 15 to the sovereign, or 7-53 grams of gold to the rupee.

Effect of the War

When war broke out, many Governments took steps to collect as much gold as possible and prohibited or greatly restricted the export of gold. India has always been unxious to secure as much as possible of the precious metals, and during the four years ending with 31st March 1914 she absorbed SS million sovereigns' worth of gold-nearly one-fourth of the world's production for those four years The war and the action taken by various Governments including her own greatly restricted the import of gold into India and during the five years of war conditions her absorption of gold was only 30 million sovereigns worth whereas had war not broken out she would probably have absorbed during those five years something like 100 million sovereigns worth of gold Being thus started of gold, the people of India demanded a great increase in the import of silver and ultimately forced the Government to import immense quantities of silver and con it into rupees. The Government found itself compelled to take steps to meet this demand, because it had greatly increased its issue of paper currency and locked up its currency and gold standard reserves to a large extent in securities which owing to the war, could not be realised except at a serious loss, so that in order to maintain the convertibility of its paper currency, it had to issue rupees to meet the demand. In the year ending with 31st March 1919 the Government of India imported 236 million ozs of silver, while the world's new production in that year was less than 200 million ozs excessive demand of India for silver, together with the demand from other countries, led to a very rapid rise in the world price of silver measured in gold, and on 31st January 1920 the price of silver in New York was 133 cents per fine oz, as compared with the average price in 1913 of 61 cents—that is to say, on that date an owner of gold would only command in New York 15 5 ozs of silver, whereas in 1913 at commanded 34 ozs On the same date the quoted price of standard silver in I ondon was 83d per oz while in 1913 the average price was 28d On the same dry gold sold in London at 117s sterling per oz as compared with the 85s per oz at which it sold before the issue of the practically inconvertible paper currency, so that in London on that day the ratio between gold and silver was 15 7 to 1-or nearly the same as in New Yorl

In India during the war and for some time after the Armistice, while the import of gold was severely restricted and silver was imported in immense quantities the value of gold measured in silver or in rapees miturally rose very rapidly with intige regard to the ratio between them in the world outside. Before the war the price of gold remained practically constant at about Rs 24 the tola of 180 grains—that is 7.5 grains to the rupee—and the price of the sovereign was Rs 10. But in the beguning of September 1919 gold was selling in Bombay at Rs 32 per tola (5.6 grains to the rupee), which would give the price of the 13 grains of fine gold contained in the sovereign as Rs 20. In September 1919 the Government of India began to sell considerable quantities of gold in the open market, with the effect of bringing down the price of gold by 31st January 1920 to about Rs 27 per tola—that he value of silver as measured in gold chiefly crused by India's excessive demand (compared to the pre-war rate of 16d per rupee). When allowance is made for the low gold value of the pound sterling which was then equivalent only to 72 per cent of the sovereign, this menus that on 31st January 1920 a rupee would by in London 0.9 6 grains of fine gold while in India owing to the restricted supply of gold a

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rupee would only buy 6.7 grams, and on that date, while both in London and in New York an ounce of gold would buy only about 15.5 ozs of silver, it would in India buy 23.5 ozs

Secretary of Mate's Announcement

On 2nd February 1920-that is, about three years ago-the Secretary of State for India surprised the world by announcing that he would aim at giving the rupee a fixed value in exchange of Re 1 for 11 3 grains of fine gold—that is, one-tenth of the gold content of the sovereign, that the sovereign would be made a legal tender in findin at the ratio of Rs 10 (instead of the pre-war ratio of Rs 15) to one sovereign, that the import and export of gold would soon be freed from Government control. and that the prohibition on the private import and export of silver would be removed in due course. This announcement had an immediate effect in greatly reducing the price of gold in India expressed in rupees, and by 19th February 1920 the value of the sovereign com in India had fallen from Rs 17 to Rs 12, at which rate it was then still legal tender On 20th June 1920 the Government of India announced that the restrictions over imports of gold bullion were removed, that sovereigns would cease for the time to be legal tender, and that they would submit a Bill prescribing the new ratio of one sovereign to Rs. 10 at which the sovereign would again become legal tender (The necessary Act was passed on 15th September 1920) Accordingly, since 12th July 1920 there has been no restriction on the import into India of cither gold or silver bultion or sovereigns, and India has been able to obtain as much as she wants either of gold or of silver. Her excessive demand for silver, which was lurgely due to her being prevented from getting as much gold as she wanted, has now ceased, and as other countries also, such as China and South America, had been prevented from obtaining the gold they wanted and were now able to satisfy their requirements and thus increase the world's effective demand for gold, while at the same time reducing its effective demand for silver, the consequence of this removal of restrictions was a rapid fall in the value of silver as measured in gold. and an equalisation of the ratio between gold and silver all the world over 31st Junuary 1922 that ratio which in 1913 was about 34 to 1, and on 31st Junuary 1920 was 15 5 to 1 both in London and in New York, but 23 5 in India, had become that figure—that is to say, at present pretty well all the world over an ounce of gold exchanges for about 31 or 32 ozs. of silver, which is not a very different ratio from that which prevailed in 1913 when it was 34 ozs of silver to I oz of gold This change in the value of silver as measured in gold can perhaps be best understood from the New York prices of foreign silver in cents per fine ounce, which were in 1913, bl cents, on 31st January 1920 133 cents, and on 31st January 1923, 64 8 cents-that is much the same as in 1913. The London prices which are quoted in pence sterling per ounce 925 fine, were in 1913, 28d, on 31st January 1920, 83d, and on 31st January 1923, 31 4d -again not much above the 1913 price

Changes in the I alue of the Rupee

In India, when, owing munity to her excessive demand for silver, the world price of silver measured in gold rose very rapidly, the value in international exchange of the rupes com which had been much below the value of the 165 grains of fine adver contained in it, naturally rose with the rise in the value of silver billion until on 31st January 1920 the rupee was quoted in London at 28d sterling as compared with the 16d at which it had long stood up to the outbreak of war—that it to say, the value of the rupee in pence sterling had nearly doubled and, as already said, it was on that date worth in London 9 6 gruns of fine gold, as compared with the 7 5 gruns it was worth up to 1914. But when owing to the removal of the restrictions on the movements of gold and silver bullion throughout the world the effective demand for gold increased and the effective demand for silver decreased so that the value of silver, whether measured in gold or in sterling or in rupees fell greatly, the bullion value of the rupee fell along with it or some time the value of the rupee in international exchange corresponded closely with the value from day to flar of the 165 grains of silver contained in it, so that for the time being the rupce was agun linked with silver, as it had been before the Indian Mints were closed to comage in 1893 As the gold value of silver fell so did the value of the rupee in international exchange, until on 23rd Wm 1921 the London rate of exchange was only 15d to the rupee, and as on that date the British paper pound was worth only 81 per cent of the gold in a sovereign, this price of the rupee was equivalent to hitle more than 12d

the fall in the value of the 165 gruns of silver contained in it, until in 1892 the rupes was worth only 15d instead of the traditional rate of 24d. In 1893 however, the Indian Mints were closed to the free comage of silver, and for some years practically no addition was made to the number of rupes come in existence, while the demand for them increased with the growth of India's prosperity and trade, we that the value in exchange of the rupes come was no longer determined by the value of the 165 grains of silver contained in it but, after falling to 13d in 1891, steadily increased until it was sabilised at 16d per rupes or 18 15 to the sovereign at which rate it remained until after the outbreak of war, although the value of the silver contained in it went down to less than 9d in 1900. The closing of the Mints had thus resulted in unlinking the rupes from silver, and the success of the action taken to stabilise the rate of exchange at 16d meant that the rupee was now a token come insked with gold at the rute of 18-15 to the sovereign, or 7-53 grains of gold to the rupes.

Effect of the War.

When was broke out, many Governments took steps to collect as much gold as possible, and prohibited or greatly restricted the export of gold. India has always been untious to secure as much as possible of the precious metals, and during the four years ending with 31st March 1914 she absorbed 88 million sovereigns worth of gold-nearly one-fourth of the world's production for those four years. The war and the action taken by various Governments including her own greatly restricted the import of gold into India and during the five years of war conditions her absorption of gold was only 30 million sovereigns worth whereas had war not broken out she would probably have absorbed during the c five years something like 100 million sovereigns worth of gold Being thus started of gold the people of India demanded a great increase in the import of silver and ultimately forced the Government to import immense quantities of silver and con it into rupces Government found itself compelled to take steps to meet this demand, because it had greatly increased its issue of paper currency and locked up its currency and gold standard reserves to a large extent in securities which, owing to the war, could not be realised except at a serious loss so that in order to maintain the convertibility of its paper currency, it had to issue rupees to meet the demand. In the year ending with 31st March 1919 the Government of India imported 236 million ozs of silver, while the world's new production in that year was less than 200 million ozs excessive demand of India for silver, together with the demand from other countries, led to a very rapid rise in the world price of silver measured in gold, and on 31st January 1920 the price of silver in New York was 133 cents per fine oz, as compared with the average price in 1913 of 61 cents-that is to say, on that date an connec of gold would only comman 1 in New York 15 5 azs of silver, whereas in 1913 it commanded 34 ozs On the same date the quoted price of standard silver in London was 83d per oz while in 1913 the average price was 28d On the same day gold sold in London at 117s sterling per oz as compared with the 85s per oz at which it sold before the issue of the prictically inconvertible paper currency, so that in London on that day the ratio between gold and silver was 15 7 to 1-or nearly the same as in New York

In India during the war and for some time after the Armistice, while the import of gold was severely restricted and silver was imported in immense quantities the value of gold measured in silver or in rupees naturally rose very rapidly with little regard to the ratio between them in the world outside Before the war the price of gold remained practically constant at about Rs 24 to the tola of 180 grams-that is 7 5 grains to the rupee—and the price of the sovereign was Rs 15 the beginning of September 1919 gold was selling in Bombay at Rs 32 per tola (5 6 grains to the rupee) which would give the price of the 113 grains of fine gold contained in the sovereign as Rs 20 In September 1919 the Government of India began to self-considerable quantities of gold in the open market, with the effect of bringing down the price of gold by 31st January 1970 to about its 27 per tola—that is 6 7 grains to the rupee, while on the same date owing to the great increase in the value of aller as measured in gold chiefly caused by India's excessive demand for silver for purposes of comage the rupee was quoted in London at 28d sterling (compared to the pre-war rate of 16d per rupee) When allowance is made for the (compared to the pound sterling which was then equivalent only to 72 per cent of the sovereign this means that on 31st January 1920 a rupee would buy in London 9 6 grains of fine gold while in India owing to the restricted supply of gold, a

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rupee would only buy 6 7 gruns and on that date while both in London and in New York on ounce of gold would buy only about 15 a case of silver it would in India buy 23 5 cas

Secretary of State & Announcement

On 2nd February 1920-that is about three years ago-the Secretary of State for India surprised the world by announcing that he would aim at giving the rupce a fixed value in exchange of Re 1 for H 3 grains of fine gold—that is one-tenth of the gold content of the sovereign that the sovereign would be made a legal ten ler m Is dir at the ratio of R. 10 (instead of the pre-war ratio of Rs 15) to one sovereign, that the import and export of gold would soon be freed from Government control and that the prohibition on the private import and export of silver would be removed in due course This innouncement had an immediate effect in greatly reducing the price of gold in India expressed in rupees and by 19th February 1920 the value of the sovereign coin in India had fallen from Rs 17 to Rs 10 at which rate it was then still legal tender. On 20th June 1920 the Government of India announced that the restrictions over imports of gold bullion were removed, that sovereigns would cease for the time to be legal tender and that they would submit a Bill prescribing the new ratio of one severeign to Rs 10 at which the sovereign would igain become legal tender (The necessity Act was passed on 15th September 1920) Accordingly, since 12th July 1920 there has been no restriction on the import into India of either gold or silver bullion or sovereigns and India has been able to obtain as much as she wants either of gold or of silver. Her excessive demand for silver, which was largely due to her being prevented from gutting as much gold as she wanted his now ceased, and as other countries also such as China and South America, had been prevented from obtaining the gold they wanted and were now able to satisfy their requirements and thus increase the world's effective demand for gold while it the same time reducing its effective demand for silver, the consequence of this removal of restrictions was a rapid fall in the value of silver as measured in gold and an equalisation of the ratio between gold and silver all the world over 31st January 1922 that ratio which in 1913 was about 34 to 1 and on 31st January 1920 was 15 5 to 1 both in London and in New York but 23 5 in India, had become According to the quotations it is still at about about 31 to 1 in all three countries that figure—that is to say at present pretty well all the world over an ounce of gold exchanges for about JI or 3' ozs. of silver which is not a very different ratio from This change that which prevailed in 1913 when it was 34 ozs of silver to 1 oz of gold in the value of silver as me isured in gold can perhaps be best understood from the New York prices of foreign silver in cents per fine ounce which were in 1913 bl cents. on 31st January 1920 133 cents and on 31st January 1923 64 8 cents—that is much the same as in 1913

The London prices which are quoted in pence sterling per ounce 925 fine were in 1913 287 on 31st January 1920, 834 and on 31st January 1923, 31 4d -again not much above the 1913 price

Changes in the Value of the Rupee

In India wien owing munly to her excessive demand for silver the world price of silver measured in gold rose very rapidly, the value in international exchange of the rupes com which had been much below the value of the 165 grains of fine silver contained in it naturally rose with the rise in the value of silver ballion until on dist January 1920 the rupee was quoted in London at 281 sterling as compared with the 162 at which it had long stood up to the outbreak of war—that is to say with the 16d at which it has non-scotch before the value of the rupee in pence sterling had nearly doubled and as already the value at was on that date worth in London 9 6 gruns of fine gold, as compared with the 7 o gruns at was worth up to 1914. But when owing to the removal of the the 7 o grains it was worth up to 1914 restrictions on the movements of gold and silver bullion throughout the world the effective demand for gold increased and the effective demand for silver decreased so that the value of silver whether measured in gold or in sterling or in rujees fell greatly the bullion value of the rupes fell along with it. For some time the value of the rupee in international exchange corresponded closely with the value from day to day of the 165 grains of silver contained in it so that for the time being the rupce was again linked with silver as it hal been before the Indian Mints were closed to comage As the gold value of silver fell so did the value of the rupee in international exchange until on 23rd May 1921 the Loudon rate of exchange was only lod to the rupce and 25 on that date the British paper pound was worth only SI per cent of the gold in a sovereign, this price of the rupee was equivalent to little more than 12d

measured in gold-that is to say it was then worth in London only about a 6 grains of fine gold as compared with the 7 5 grains it was worth before the war and with the 9 6 gruns it was worth in London on 31st Junuary 1920—only 16 months before Since than the value of silver has risen somewhat as is shown by the lise in the New York quotation for foreign silver which has risen from 50 cents on 23rd May 1921 to 61 8 cents on 31st January 1923 and there is no doubt this had some effect in raising the value in exchange of the rupee but the rupee is no longer closely linked with silver, is it has not closely followed the price of silver in its downward course. On Jist Junuary 1922 the exchange value of the rupee in London was 10 61 sterling or much the same as it was before the war as compared with the 28d which it had reached on 31st January 1920 before the announcement of the Secretary of States new policy On 31st January 1923 it was 16 od sterling or little above what it was a year before or in 1913 But it is to be remembered that a penny sterling does not now mean the 240th part of the gold in a sovereign but the 210th stering does not now ment the 200m part of the goest at a sovereign but the lynt of the value of a paper pound and as the paper pound is now worth 9.5 7 per cent of the sovereign this means that on dist January 1923 the value of the rupee measured in gold in London was only 1.5 8d as compared with 16d before the war Still this is a substantial improvement on its value a year ago, which measured in gold was then 13 7d During the last 12 months the supee has risen in gold value along with the rise in the gold value of the British paper pound. In other words on 31st January 1923 the rupee was worth in I ondon 7 4 grains of fine gold as compared with the 7 o grains it was worth before the war and as compared with the 9 6 grains at was worth in London on 31st January 1920 and with the 6 5 grains it was worth Thus the rupee has nearly attuned the value in international exchange as measured in gold which it possessed before the war but is still very far short of the value of 11 3 grains of fine gold aimed at by the Secretary of State in his aunouncement made three years ag) In 1913 the rupee which was then a mere token com representing one fifteenth of the gold in a sovereign although it contains only 165 grains of fine silver, bought either in London or in India about 255 grains of silver On 31st January 1920 when there was such an excessive demand for silver in India it bought only about 157 grains but on 31st January 1923 it bought in London 233 grains in India about 217 grains-that is to say it bought enough fine silver to make 1 31 supee coins, and to that extent it has become unlinked from silver

India's Stock of Gold and Silver

From time immemorial India has been a great absorber of the precious metals From 1830 to 1919 India imported net £316 million worth of fold, of which more than half was imported since 1900 I reckon that at present the quantity of gold in the possession of mankind is about 1 000 million ozs—enough to make 4 2.0 million sovereigns-and that of this quantity India possesses about 100 million o/s - about one-tenth of the world's total stock. And is less than 6 million oze is in the Government Treasury nearly the whole of this large quantity is held by the people in the form of ornaments or hourded coin or ballion. During the five years before the war she was absorbing on the average 5 million ozs per annum-nearly one quarter of the world's new production During the war she was only allowed to absorb an average of less than 2 million ozs per annum but, when the restrictions on the movements of gold were related she at once took advantage of her recovered liberty and during the 12 months ending with March 1920 absorbed 6 million ozs This app rently satisfied her demand for the time being as during the following 12 months she ab-orbed less than I million ozs, and partly no doubt owing to the poor harvests in 1920 1 she during the 12 months ending with March 1922 exported net half a million ozs More recently however she has again begun to outbid the United States for the gold available in the London market, this change being no doubt partly due for the good available in the London in the collection of an their good harvest next May Duning the calendar year 1922 India imported from this country alone gold to the Diring the categories was a large and the country mone good to the value of £12 8 million about 5 million ozs —bestdes 46 million ozs of silver. The total quantity of gold held in India includes nearly 100 million comed sovereigns. which before the war were legal tender at the late of lts 19 per sovereign and were which defore the war were regar tenues as no same and the street source and more coming into circulation especially in the Funjah. But now that the, this deep indeed legil tender for only Rs 10 in accordance with the Secretury of Stutes policy, the sovere gn is no longer in circulation in India, because no one will tender it for its 10 when he cun get for it in the Bazaar over Rs 16 For the time being therefore gold, even in the form of sovereigns is out of the reckoning as regards circulation

India also contains in endimous quantity of silver, much of it in the form of ornaments From 1835 to 1919 she imported net 2,000 million ozs more than onethud of the world's production during that period But, as the Mints have for the last 30 years been closed to the comage of silver except on Government account the uncomed silver is not available for purposes of circulation Practically, therefore, the currency wallable for circulation includes only the coined rupees and the The success attained before the war in keeping the Government's currency notes exchange value of the rupee stable at 16d gold was due to the closing of the Mints and the consequent limitation in the number of papers available for circulation while owing to the increase in Indias tride and prosperit, the demud for rupes rose, until the rupes was worth much more than the value of the silver contained in it. It until the raped was worth made more than the value of the surer contained in a fit could not rise except by a friction above 16d because the Government was bound to necept a sovereign as the equivalent of Rs 15 so that if at any time the exchange value of the rupee rose above 13d at would have paid to import sovereigns into India and to pay debts in sovereigns instead of in rupees Even before the war the Government of India tempted no doubt, by the great profit it could secure by coming cheap silver into rupees each of which could be issued is a token coin equal in value to one lifteenth of a sovereign alded greatly to the rupee comage and during the 14 years ending with 1910 no fewer than 1 600 million new rupees were comed Then when as already explained, the Government of India in consequence of the restrictions on the import of gold during the war found it necessary in order to muntain the convertibility of its note issue to obtain immense quantities of silver from abroad and coun it into rupees during the three years ending with 31st March 1919 the net courage amounted to no less than 1,034 million rupee coms making a gross addition to the silver currency since the beginning of the century of over 2 600 million rupeo coins It is unlikely that any large number of these coins have been melted and turned into bullion or ornaments because the 165 grains of silver contained in the rupee coin could generally be bought in the bazzu at much less Making allowance on the one hand for the quantity of rupees in India in the year 1900 and for the number of rupees melted since it may be estimated that there are at present in existence about 4,000 million rupee coins. A very large number of these come are horded by the people but if it became worth their while to spend them, might become available for circulation. When the harvests are good and the people are prosperous they hoard rupees in large numbers When the harvests are poor they produce their horded tupees and send them into circulation, so that the quantity of rupees in actual circulation is apt to vary from time to time partly for this reason and also in consequence of changes in the level of prices measured in rupees

Currency Note Issue

While the Government of India have thus added greatly to the number of rupce coins in existence they have also greatly increased the quantity of currency notes in -circulation, as will be seen from the following statement

Indian Paper Currency Reserve (Williams of Rupies)

Indian Paper Curre	tog trees			
	31st Mar 1914	31st Dec 1971	31st Dec 1999	2 ad Ang 19 s
	661	1 725	1 742	1 871
Note circulation Reservo — Silver com and bullion in India Gold com and bullion in India Gold com and bullion in England Government of India securities	205 224 92 100 40	740 243 — 684 58	574 59	877 223 — 571 200
British Government securities	661	1 725	1742	1 871

The total note circulation has increased from Rs 661 millions on 31st March 1914 to its 1,742 millions on 31st December 1922—that is to say, it has nearly trebled ny estimate of 4 000 million rupee come as the quantity now in existence in India ing estimate or 4000 million rupes come is the quality now in existence in India is correct, this means that the ford amount of legal tender money, apart from gold, now in India is about 5 700 million rupees—or about Rs 18 per head of population now in India is the addition to the quantity of rupees and notes since 1914 has been approximately— the addition to the quantity of rupees and notes since 1914 has been approximately— tupee coins 1,034 million, notes to the value of 1,081 million, total Rs 2,115

It is true that a very large proportion of these supers and notes are either hell in reserve by Government of are horsded by the people and I see that Mr Findlay Shirtas in his book of Indian Finance and Bushing estimates that on 31st March 1919 the active circulation of rupes, and notes with 1828 3020 millions which gives an average per head of Rs 11 4 as compared with 7 5 in 1914 But the whole of the rupeer and notes in existence in India could be made available for purposes of circulation if the holders were willing to use them for that purpose. My point is that at present gold is practically out of circulation in India and the rupes com is no longer linked either with gold or with silver bit so far as international exchange is concerned is merely an inconvertible unit of currency subject to the law which regulates all inconvertible currencies—that is to say hable to change in its value measured in gold according to changes in the relation between the total available supply of the currency and the total effective demand for it—and that the total available supply of this inconvertible currency has in recent years been

enormously increased When the people of India have more supers than they have an issmediate use for, whether for purposes of creathion or hosting the rupes coins flow back into the Government Treasures and as will be seen from the above statement the quantity of silver coin and bullion held in the Curency Reserve in India has increased from Rs 205 million on 31st Murch 1914 to no less than Rs 866 million on 31st December 1922-more than one fifth of all the rupee come in existence—the increase during the past year being Rs 126 million, which affords strong evidence that the total amount of rupees and notes is at present much larger than India really requires for all purposes. It is unfortunate that the Government of India should have felt itself compelled in the three years ending with 31st March 1919 to com over 1 000 million new rupees and so add to the total of legal tender money in existence It was compelled to do so in order to maintain the convertibility of its immense is ue of currency notes and the mistake apparently was to allow the quantity of currency notes in circulation to reach such a light figure. It is usually supposed that a bank or a Government makes a profit out of its mote issue and to a certain extent this is true but in the case of India there must have been a serious loss to the Government from its excessive issue of notes It was compelled in order to maintain the convertibility of the notes to purchase an immense quantity of silver from outside India (mainly from the Unite i States) at a time when silver as measure I in gold The counge of over 1 000 million rupes coms in those three was excessively dear vears must have cost a large sum apart from the cost of the silver, and now the Government of India has to store and guard 866 million rupee come besides gold com and bullion to the value of 24 million sovereigns and to find the interest on the 574 million rupees worth of Government of India securities held in the Currency Reserve Altogether, if a calculation were made it would probably be found that during the last eight years the Government of India's increased issue of currency notes has involved it in a serious net loss

The Gold Standard Reserve

Since the Vints were closed to the free coinage of silver in 1893 the cost of the 160 grains of silver contained in the rupee coin has generally been much below Re 1, so that a large profit has accrued to the Government from the comage of new rupces on Government account This profit has been placed to what is called the Gol 1 Standard Reserve to which also the intere t on the accumulated funds is carried This reserve which on 31st Varch 1914 amounted to 25 5 million pounds, is not (31st December 1922) £40 000 000 sterling prictically all held in short dated British Government securities The existence of this reserve has no doubt helped to give a feeling of confidence but it has so far had very little effect on the rate of exchange

In ha & Balance of Trade

In estimating India s bilance of trade it is necessary to include imports of Government stores into In its beause India has get to pay for them by exporte It is also necessary to include the lurge imports of gold and silver, whether on Government or private account because they also have to be paid for by exports from India and lecause the goll and silver are imported into India not so much in order to a just the balance of trade as to meet the demand of the Indian people for the precious met ils for the purposes of ornaments and hoarding. So reckoned the average risible net exports of merchandise from India for the five years ending with 1913 I

were 18 1 nullion pounds and the average net import of treasure during those five years was £25 000,000 Putting merchandise and treasure together the average net export was 22 1 million pounds These figures represent the visible exports and imports but India has to pay each year a large sum in addition to the value of the visible imports for the year representing (1) interest on capital belonging to residents in foreign countries which has been invested in India whether by way of loan to Government or to private companies or to establish industries in India (2) payment for services rendered to Inlia by foreigners whether in the Army or the Civil Services or in private capacities such as shipping banking insurance and industral undertakings in so fir as the remuneration for such services is payable outside India or is remitted to other countries by residents of those countries or 13 payable by way of pension to foreigners who have returne I to their own countries and who take payment of their pensions outside India. All these payments have to be made by India in the form of in excess of visible exports over visible imports On the other side would have to be reckoned any new investments made in India during the year But in ordinary times these invisible imports are much less than the musible exports and this is the main reason why on the average of the five years before the war Indias visible exports exceeded Indias visible imports including treasure by 22 4 million pounds and why in ordinary course it is to be expected that India a visible exports will gie itly exceed her visible imports

Council Draft

A large proportion of the payments which have to be made by India to foreign countries on such accounts which are not counterbalanced by visible imports during the vert are made through the Secretary of State for India in London through whom has to be put the interest due by the Government of India to British avestors who have lent money to the Government of India on terms requiring them to be paid the interest in London and through whom have to be paid claims for the services of the British Army in India and pensions and leave allowances payable to officers both of the Army and of the Civil Services who have returned permanently or temporarily These payments which have to be nade by India through the Secretary of State in London amount to a large sum approximating in ordinary times to £20 000 000 per annum In order to obtain funds to make them the Secretary of State many years ago established a system of selling Council Drafts—that is orders for the payment in In ha fron the Government Treasury of so many rupees which are sold in the open market in London in return for credits in sterling payable in London which are paid to the Secretary of State in London by the purchasers of the Drafts in return for the orders which they require to enable them to obtain rupees in India to pay there for exports from India or to meet other debts pyrable in India On the average of the five years ending with 1913-4 the Council Drafts paid in India amounted to 27 6 million pounds. From the point of view of the balan e of tride these Council Drafts are of the nature of invisible exports from India which go towards adjusting India s indebtedness to foreign countries although nothing passes between England and Indra except bits of paper, which enable the Secretary of State to pay India's debts in London in sterling by an actual payment of rupees from the Treasury in India That is to say they are transfers of credit selling Council Drafts the Secretary of State generally fixes the amount he is willing to sell and the lowest rate he is willing to take and accepts up to that amount the best offers he can get in the London market. There are other ways in which a merchant who has to pay for goods in Indua on obtain Indian exchange and if the Secretary of State were to offer Council Drafts at a minimum rate materially above the market rate of the day he would get no demand for them. if the minimum rate that he offers to take is more favourable than the market rate if the minimum rate that he oners to take is more ravourable than the market rate merchants and others requiring a credit in rupees in India compete for the Drafts and in this way the Secretary of State is able to obtain a fair rate. He has however by the power by selling Council Drafts to force the rate of exchange permanently very little power by selling Council Drafts to force the rate of exchange permanently either up or down. That depends upon the value in international exchange of the Brush pound sterling which is at present practically inconvertible and of the Indian rupes com which is also at present inconvertible into gold at any fixed rate and on the relation between the demand for credit in India and the supply of it which varies from day to day according to the course of trule. As a matter of first for some time past the sale of Council Drafts had been stopped and the market and the Some time past the sale of Council Plats, and both support and the market and the Secretity of State and the merchants got along without them Recently the price of silver in Calcutta anyone in India can buy the 165 grains of fine silver required to make a standard rupee for 12 annas and if he can succeed in making and issuing a false ruper of the stindard fineness he will get 16 annas for it-a profit of JJ per cent on the cost of the silver, less the costs of alloy, manufacture and issue. Be fore the war there was a similar temptation to issue false coinage, which was only counteracted by severe possities and it is obvious that the greater the difference between the exchange value of the rupee and the value as bullion of the silver contained in it, the greater will be the temptation to attempt to counterfeit the counage

The future Price of Silver

It seems probable that there will soon be a further fall in the value of silver, whether measured in gold or in rupers or in commodities. In the United States in 1918, mainly in order to meet the needs of the Indian Government a measure was passed called the 'Pittman \ct vitnorising the sale by the American Government to other Governments of up to 350 million silver dollars from the holdings in her Reserves and of this amount no less than 200 million dollars were allotted to India at a price of 1014 cents per line ounce Altogether under the Pittman Act the amount of silver sold from the Unite I States Reserves was 208 million ozs and, in accordance with the provisions of that Act this amount has had to be replaced in the Reserves by the purch 180 of silver mine I in the United States at the price of I dollar per ounce That is the reason why one sees in the daily quotations two prices given for silver in For instance on 31st January last while American mined silver was quoted at 905 cents foreign bullion was quoted at only 612 cents per fine ounce so-called foreign bullion quaration which gives the world price of silver other than the favoured silver mined within the United States Of the 208 million ozs to be so replaced, 119 million ozs have been bought leaving a balance of 59 million ozs, which, at the rate at which purchases live recently been made should be completed Thereafter, unless new legislation is passed in the United States the whole of the American produce will have to compete with the rest of the world production in a tree market and will be added to the world's available supply of At the same time the world's deman! for silver is likely to go on decreasing Our own Government having reduced the quantity of fine silver in the silver comage, has be ome a seller of silver The Indian Government having an enormous number of rupees lying in its Reserve Treasury is unlikely to resume coinage for years to come. On the whole it seems probable that there will be a further fall in the world price of silver, and that the price in New York, which is at present about 63 cents per line ounce, will fall below the price of 61 cents per fine ounce, will fall below the price of 61 cents per fine ounce which was that of 1913, and it is to be remembered that so recently as 1910 the price of silver in New York was only 51 cents per fine ounce Sumlarly the price of standard silver 920 fine in London, which is now about 31d, stems likely soon to fall below the 25d which was its price in 1913 and may even fall as low as the 21d storling which was Any fall in the price of silver that may take place will increase the temptation to issue counterfeit tupees and any further rise in the exchange value of the rupee coin, whether or not it is accompanied by a full in the present price of silver, will also increase that temptation and make it more and more difficult to maintain the exchange value of the rupee

Conclusion

To sum up the present position as regards the rupee is that it is no longer as it was before the war a meie token com representing one fifteenth of the gold in a sovereign—that is 7 5 grains of fine gold. It is now the unit of a currency neonvertible into gold at any tree rate and its present value in gold is in London about? I grains—or very nearly what it was before the war, notwithstanding the Secretary of States announcement of policy three years ago that he would am at making it equal to 11 3 grains. It is now (on 31st January 1923) worth in steiling about 16 5d, which is equivalent to 15 8d measured in gold—only a fraction short of its pre war value of 16 l measured in gold. The Secretary of States brutum fulmen of 1920, although at the time it had a disastrous effect in making many people believe that the gold value of the rapes would remain at something like 24 for one tenth of a sovereign and act on that black like now no practical influence on the rate of exchange As in the case of all inconvertible currences the value of the the late of exchange As in the case of all inconvertible currencies the value of the lujee whether measured in gold or in commodities now varies according to the relation between the demand and supply of rupees and the demand and supply of rupees, whether in the form of coins or gold or of commodities. The supply of rupees, whether in the form of coins or

VALUE OF THE RUPEE MEASURED IN GOLD AND SILVEP

	In 1913	31st Jan 1920.	31st Jan. 19 ³ 2.	31st Jan 1923	
	113	82	99 5	108 1	
Value of the pound sterling in grains of gol l	100	72	88 1	95 7	
Value of the pound sterling as a percentage of	200	1	ì		
the sovereign Value of the sovereign (113 grains of gold)					
Value of the sovereign (11) grains or gold,			l .		
in rupees—	15	11 9	17 5	15 2	
In London	15	17	179	16 7	
In India Value of the rupee in grains of gold—				7.4	
In London	75	9 6	6.5	68	
T., Yu Lia	7 5	6 7	15 6	16 5	
Tr. 1 41 a range in pence sterling in Lot don	16	28	13 7	15 8	
Value of the rupee in pence measured in gold	16	20	10 1	100	
in London		1	1		
Value of the rules in grains of silver-		149	197	233	
In London	253	157	194	217*	
In India	257	101	1		
Ratio of gold to silver—	34	15 5	31 3	319	
In New York	34	15 7	30 5	31 4	
In London	34	23 5	30 8	32 1	
In Ind a	J 37	1	1		

10th Jan ary 19°3

Article on "The Indian Currency Policy," by Sir James Wilson, K CSI, dated 8th September 1925

On 31st August 1925 the quotations were as follows —In London price of gold, \$4 10s per fine ounce, price of silver per ounce 925 fine, 32 884, rate of exchange of the rupee, 18 16d In New York the pound sterling, 4 855 dollars, price of fine silver, 71 75 cents per once In Bombay on 11th August gold was quoted at Rs 21 41 per tola of 180 grains, the sovereign at Rs 13 83, and fine silver at Rs 72 4 per 100 tolas These quotations give the following yaluss —

VALUE OF THE RUPEE MEASURED IN GOLD AND SILVER

VALUE OF THE RUPEE	In 1913	31st Jan. 19 0	31st Jan 1977	31st Jan. 1921	31st Aug 19o
Value of the pound sterling in grains of gold	113	82	99 5	99 3	113
Value of the pound sterling as a percentage	100	72	88	87 9	100
of the sovereign (113 grains of gold) Value of the sovereign (113 grains of gold) in rupees— In London	15	11 9	17 5	15 9	13
	15	17 0	17 9	16 3	13
In India Nalue of the rupee in grains of gold— In London In In India Value of the rupee in pence serbing in Loidon Value of the rupee in pence measure I in	7 53 7 53 16 16	9 6 6 7 28 20	6 5 6 3 15 6 13 7	7 1 6 9 17 2 15 1	8 18 16
gold in London. Value of the rupee in grains of silver— In London	253	149	197	_29	24a
	257	157	194	222	249
In India Ratio of gold to silver— In New York In London	34	15 5	31 3	32 7	28
	34	15 7	30 5	32 3	25
	31	23 5	30 8	32 0	29

During the last 19 months the measures taken by the British Farliament have resulted in restoring the British paper pound sterling to the value of a sovereigo, that is 113 grains of fine gold as compared with the 99 grains it was worth in January 1924. The rupee his risen in taken in sterling from 17 2d to 18 21, but as in January 1924 the pound sterling was worth only 85 per cent of the sovereign is in the value of the rupee when mersured in gold, has really been from 15 1d to 18 2d—in other words the rupee, which before the war was worth 7 53 grains of to 18 2d—in other words the rupee, which before the war was worth 7 53 grains of gold, and in January 1924 was worth only about 7 grains now exchanges for gold, and in January 1924 was worth only about 7 grains in London and for 8 4 grains in Bombay, and the sovereign, which before

the war exchanged for Rs 15, and which in January 1924 was worth about Rs 16. now commands in Bombay only Rs 13 8 This rise of about 20 per cent in the gold value of the rupee during the last 19 months has greatly altered the Indian

currency position

The Royal Commission which has recently been appointed to report on the Indian exchange and currency system and practice will no doubt consider whether an attempt should be made to fix the rate of exchange of the rupee in terms of gold, as it had been fixed for a number of years before the war. If that were done the rupee prices of commodities would tend to vary with gold prices and us one of the chief objects to be aimed at is the stability of commodity prices, it will be for consideration whether in the future gold is likely to form the best basis of currency from the point of view of stability According to Squerbeck's series in the United Kingdom the wholesale gold prices of commodities in general use rose between 1896 and 1913 in the proportion of 61 to 65 that is, at the 1sts of 1 4 points per annum There can be little doubt that one of the chief reasons for this rise of gold prices (in other words, fall in the commodity value of gold) was the great addition to the world's stock of gold due to the increase in production which took place after 1890 If there had been no great war, and if the new production of gold had continued at the pre war rate it seems probable that the rise of gold prices would have continued and that the average wholesale gold price of commodities in this country might now have been about 17 per cent above what it was in 191, that is to say taking the prices of 1913 as 100 the index number for this country might now have been about 117 As a matter of fact according to the statistics published by the League of Nations in those countries which have kept or brought their paper currences up to the value of gold the index numbers of wholesale commodity prices currencies up to lact Vated Angdom 15s United States 157 Canada 159, Australia (May) 167 New Zealand 174 South Africa (Alex) 167 New Zealand 174 South Africa (Alex) 160 Holland 163, Sweden 161, Switzerland 161, Germann 134 These ingures ure not strictly comparable but broadly speaking they indicate that the rise in wholesale gold prices in these countries (except Germany) has been about 60 per cent -in other words it takes about 16 ozs of fine gold to purchase wholesale the same quantity of general commodities which of the gold to purchase wholesale the same quantity of general commodities which would have been purchased for 10 ors in 1913. This great rise in the gold price of commodities (or fall in the commodity value of gold) can only to a comparatively small extent be due to the increase in the world's stock of gold owing to an excess of new production of gold over the amount of gold lost during those 12 years It must be mainly due to the great destruction of commodities during the war, to lower production of commodities, and to the fact that the world's effective demand for gold has decreased at a more rapid rate than its effective demand for commodities owing to the impoverishment of many countries, and to the general withdrawal of gold from carculation

As regulds recent changes during the 12 months ending with June 1920 the index numbers (reduced to terms of gold) have itered as follows —United States from 145 in June 1924 to 157 in June 1925 United Lingdom from 144 to 158, from 145 in June 1924 to 107 in June 1925 States Augusta 110a 144 to 100, Canada from 150 to 109, Holland from 141 to 103 Sweden from 156 to 161, Switzerland from 159 to 161, Germany from 116 to 134 France from 127 to 134, Italy from 127 to 135, Belgium from 134 to 135 Japan from 164 to 168, India (Colcutta) from 155 to 184 During these 12 months therefore there has been almost all over the world a very considerable rise (averaging about 6 per cent) in the wholesale prices of commodities, when measured in gold -that is a fall in the commodity value of gold This seems to indicate that the world's available supply of gold is increasing at a faster rate than the world a effective demand for it which might be due to the increase of the world's stock of gold owing to new production, to the setting free of reserves of gold or to the desire of the world's population to

purchase commodities rather than gold

Altogether to judge from past experience gold as a basis of currency does not provide an absolutely stable basis for commodity prices But what is the alternative l efore India? The United Kingdom and the United States, which are the principal creditor countries have now currencies directly based on gold, and are not likely to the war exchanged for Rs 15, and which in January 1924 was worth about Rs 16, now commands in Bombay only Rs 13 8 This rise of about 20 per cent in the gold value of the rupee during the last 19 months has greatly altered the Indian

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the war when the rupee was merely a token coin equal in value to one lifteenth of a sovereign, India's international trade, and even her internal trade were really braced on gold. Now the rupce has no longer a fixed value in relation to gold nor do fluctuations in the value of silver have any appreciable effect on the gold value or the commodity value of the rupee coin. That depends on the relation between the supply and demand for ruper currency and the supply and demand for other commodities (including gol 1 and silver) The supply of ropee currency is regulated by the Government of India without any automatic control such as is exercised in the case of sterling or of dollars by the right a creditor has of demanding the equivalent in gold coins which have an intrinsic value of their own, according to the number of grains of gold they contring where is the rupes come which it present buys about 249 grains of silver in India contains only 165 grains of pure silver The Government of India, I venture to think, made a great mistake before the war in ripidly increasing the quantity of rapees and notes which during the war entuiled a period of anxiety and giest expense in the endeavour to maintain the concertibility of the currence notes
The Secretary of State certainly made a dissistrous mistake in 1920 when he announced that he would aim at giving the rapper a fixed value in exchange of one rupee for 11 3 grains of fine gold—that is, one tenth of the gold in a sovereign
This experience, together with the experience of many other countries during and since the war shows the danger of entrusting the management of a currency to any body of men however capable honest and impartial, without some automatic check which would prevent even a partisan or doctrinaire Government from manipulating the currency in the interest of particular classes and thus possibly inflicting great injury especially on the poorest of the population people of India will be safer with a currency based on gold although the commodity value of gold is liable to fluctuate than with one dependent on the varying opinions of any body of men

Writing in the Asiatic Review in April 1924, when the rupee was worth about 7 grains of gold, in place of its pre war value of 7 53 grains. I urged that the Government should formally cancel the fattle announcement of 1920 make the sovereign legal tender in India at the pre war rate of Rs 15 to the sovereign and at keeping the gold value of the rupee at that rate. Since then however the gold value of the rupee has risch to 8 i grains of gold which gives it a value in exchange of over 181 gold and the sovereign in Bomba, now commands only Rs 13 o But it must be borne in mind that so lately as 31st January 19.2 the rupee was worth only about 6 5 grams of gold and that only 19 months ago it was worth only about 7 grains and the recent use in its gold value to 8 4 gruins may prove to be only temporary, as being due not only to the general fall in the commodity value of gold which has taken place over the world as a whole but to exceptionally good harvests in India which led to in increase in the demand for rupee currency. If the world's demand for gold increases or the world's production of commodities overtakes the world's demand then the general gold price of commodities will fall the commodity value of gold will rise and the gold value of the rupee will tend to If India suffers from poor harvests and her exports decrease in comparison with her imports, there will be less demand for rupees and the people who hold large hoards of rupees may feel compelled to put them into circulation and thus increase the available supply of rupees which would tend to reduce the gold value of the rupee

In the interests of stability, therefore, it is desirable to fix the gold value of the rupes below its present value of 8.4 grains. It seems probable that sovereigns may soon come into general circulation in India as they showed signs of doing before the war so that it is of greater prictical importance to fix the ratio in so many even pence to the surpee. It therefore now venture to suggest that the sovereign should be made legal tender in India at the rate of Rs 14 instead of the pre-war rate of Rs 15. This would make it equal in value to 8.07 grains of fine gold and the par rate of exchange would be 17.14d. If this were done exchange could not rise appreciably above that rate, as it would then become profitable to import sovereigns into India and use them as legal tender for Rs 14. In read danger would be, as it was before the war, that the gold value of the rupes might fall below the par rate, and to minimise that danger the Government of India should risk in from coming any more rupees and should mike a large reduction in the quantity of currency notes outstanding leaving the population to make up the currency required for riciculation by influsing the Rs 87 million now in the Currency Reserve, and a portion of the great quantities of gold and impees

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the war when the rupce was werely a tolon come equal in value to one fifteenth of a sovereign India's international tride and even her internal trade were really based on gold Non the rupce has no longer a fixed value in relation to gold nor do fluctuations in the value of silver have any appreciable effect on the gold value or the commodity value of the ruple coin That depends on the relation between the supply and demand for ruper currency and the supply and demand for other commodities (including gold and silver) The supply of rupee currency is regulated by the Covernment of India without any automatic control such as is exercised in the case of sterling or of dollars by the right a creditor has of demanding the equit thent in gold coins which have an intrinsic value of their own, according to the number of gruns of gold they contunt where is the rupee coin which at present buys about 249 gruns of silver in India contains only 160 grains of pure silver The Government of India, I venture to think made a great mistake before the war in ripidly increasing the quantity of rupees and notes which during the war entuiled a period of anxiety and great expense in the endeavour to maintain the entrilled a period of inviety and great expense in the endervoir to maintain the convertibility of the currency notes. The Secretary of State certuinly made a disastrous mistake in 1920 when he announced that he would aim at giving the rapee a fixed value in exchange of one rapee for 11-3 grains of fine gold—that is one tenth of the gold in a sovereign. This experience together with the expenience of many other countries during and since the war shows the danger of entriesting the management of a currency to any body of men however captible honest and impartial without some automatic cheel which would provent even a partisin or doctrimine Government from mappaliting the currency in the interest of particular classes and thus possibly inflicting great injury especially on the poorest of the population people of India will be safer with a currency based on gold although the commodity value of gold is liable to fluctuate than with one dependent on the varying opinions of any body of men

Writing in the Asiatue Review in April 1924 when the rupes was worth about 7 gruins of gold, in place of its pre wir value of 7 53 grains I urged that the Government should formally cauced the futile announcement of 1920 make the sovereign legal tender in India at the pre war rate of fix 15 to the sovereign legal tender in India at the pre war rate of fix 15 to the sovereign und urm at keeping the gold value of the rupes at that rate. Since then however the gold value of the nupee has risen to 8 I grains of gold which gives it a value in exchange of over 181 gold and the sovereign in Bombay now communds only 18 13 o. But it must be borne in mind that so lately as 31st January 19 2 the rupes was worth only about 6 5 grains of gold and that only 10 months ago it was worth only about 7 grains and the recent rise in its gold value to 8 4 grains may prove to be only temporary, as being due not only to the general fall in the commodity value of gold which has taken place over the world as a whole but to exceptionally good harvests in India which led to an increase in the demand for rupee currency if the world's de nand for gold unceases or the world's production of commodities overtakes the world's demand then the general gold price of commodities will fall the commodity value of gold will rise and the gold value of the rupes will tend to fall. If India suffers from poor harvests and her exports decrease in comparison with heart sof rupees may feel compelled to put them into circulation and thus increase the available supply of rupees which would tend to reduce the gold value of the rupee

In the interests of stability, therefore it is desirable to fix the gold value of the rapee below its present value of 8.4 grains. It seems probable that sovereigns may soon come into general circulation in India as they showed signs of doing before the wir, so that it is of greater practical importance to fix the ratio in so many even princes to the sovereign than in so many even pence to the rupe. I therefore now venture to suggest that the sovereign should be made legal tender in India at the ratio of Rs 14 instead of the pre-war ratio of Rs 15 in This would make it equal in value to 8.07 grains of fine gold and the par rate of exchange would be 17.14d. If this were done exchange could not rise appreciably above that rite, as it would then become profitable to import sovereigns into India and use them as legal tender for Rs 14. The teal danger would be as it was before the wir, that the gold value of the rupes right fall below the pur rate, and to minimise that danger the Government of India should refrain from coning any more rupees and should mike a large reduction in the quantity of currency notes outstanding leaving the population to make up the currency required for circulation by utilising the Rs 877 million now and the Currency Reserve, and a portion of the great quantities of gold and rupees

which are at present hourded. In that case it would probably never be necessary to draw on the ±40 000 000 which the Government still holds in the Gold Standard Reserve

APPENDIX 90

Note on Indian Currency and Exchange Problems submitted by Sir M de P Webb, CIE, CBE, of Karachi

I understand that the object of the present Indian Currency Commission is examine and report on the Indian Exchange and Currency System and practice to consider whether any modifications are desirable in the interest of India and to make recommendations (vide the Statesman Calcutta of the 24th November 1925)

I have long been a keen student of the Indian Currency and Lychange Systems and have hid over 30 years' practical experience of them in India as a meichant &c who successfully survived the crises of 1892 90 1917 19 and 19-0-23. With these experiences behind me I venture to submit the following points for the consideration of the Commission

PART I -- DEFINITIONS

(A) It is essential at the start of any currency discussion that the main functions of the currency in modern civilised countries should be defined. In In lin as in all modern civilised countries currency 1 e money is the Chief Purchasing Tool

Further in India more than in the leading Western countries money is also use l

ns a Reserve of Purchaung Power to be drawn on in times of need. Money se other was but the two functions here given are I submit the most important

(a) If for any reason the Purchasing Tools of India a 320 000 000 of people become blunted if the Tools lose in purchasing power grave injustices involving possibly very serious hardships are brought about especially on small wage earners and on people generally of small means. And such people form a very large proportion of the whole population

(I am convinced that the rapid popularity obtained by Mr Gaudla among the masses and the corresponding wave of all will towards Government that appeared in loth town and country towards the end of and immediately after the termination of the Great War was largely facilitated by the terrible hardships caused by the Indian currency losing half or more of its purchasing power during the War Lhis loss has not yet been wholly made good and the general level of prices in India is still some 70 per cent above pre-war levels)

Government hear little or nothing of these hardships from those immediately concerned I ecause the great mass of the people in India are spealing generally, wholly uninformed as to consequences of short or excessive issues of curren y by Covernment

(c) Further not only has the efficiency of India's Chief Purchasing Tool diminished in consequence of the Great War but all Reserves of Parel asing Power have similarly lost in value All holders of the c reserves have therefore also suffered though not so severely as the poorest classes of wage earners. These injustices to wage and salars corners have by now been very largely removed by increases of pay

(n) On the other hand sudden and considerable increases in the Purchasing Power of the currency all o molve injustice and if unexpected heavy losses on rincipals engaged in the work of prediction. For falling prices me in unexpected loss is on all stocks of ray products and manufactured goods and on all goods in course of production. These will produce are in many cases for letter than the production of the production. Those with produce are in many cases far letter informed and organised than the poorest classes and so can exert far greater political influence than the vast unorganised mass of small wage earners H then the general fall of prices (i.e access of I urchasing Power of the country's Monetary Tools) be very great Government are sure to hear a lot of the matter and demands will be male that Government turn the situation in favour of the prolucing stock holding and speculative classes by directly or indirectly putting more money into circulation in order to lessen the value (i.e. purchasing power) of the Money Tools then current

PART II -GOVERNMENT'S CULTEREY PUNCTIONS

(t) Since the closing of the Indian Mints to the free comage of silver in 1893 and until Government declare I sovereign, legal tender in It dia the work of issuing new currency in India has been the monopoly of the Government of India As the ratio of the rupee to the sovereign is at present fixed at a point which, for the time being, prevents sovereigns being legally tendered in India for purchising purposes Government are in effect still the only source from which supplies of new currency can be obtained by the public And as the value or purchasing power, of India's Money Tools depends upon the volume of those Tools in circulation as compared with the volume of work they are called upon to perform it is within the power of Government to-day to augment or diminish the purchasing power of India's Money Tools by respectively withholding or multiplying new issues of currency

(1) Rightly used the expression stabilisation of the rapee should mean ' stabilisation as far as practicable, of the general purchasing power of the rupee ' and not, as often understood, of its purchasing power in relation to the sovereign or pound sterling only And, remembering the grave injustices and hardships inflicted upon great sections of the population by considerable fluctuations in the purchasing power of the country a Money Lools it is clearly one of the first duties of Government

to guard against all such fluctuations as far as humanly possible

This duty is by no means easy of accomplishment for fluctuations in internal price levels arising from natural causes (such as exceptionally good rains, or blights or rests), affect siles oversers and later purchases overseas, thereby changing the sterling in relation with each other. On the other hand Government, when dealing with Council Drafts and 'Reverse Councils cin raise or lower the foreign exchinges, and so for the time being lower or ruse internal price levels. To add to the dilliculties of the problem interested organisations at the chief ports often demand currency facilities or exchange policies quite regardless of the consequences on internal price levels were these organi ations' demands acted upon

(c) I may add in this connection that if Government find it impossible to conduct a currency policy that will not affect the purchasing power of Indias Money Tools one way or the other, then I think it would be best in the general interest of India that the general level of internal prices should very slowly and gradually rise rather than steadily and continuously full This would mean that in periods of prosperity arising from a succession of good sersons in India and good demands overseas for India's surplus products sterling exchange also would gradually -not rapidly-rise If internal prices in India were prevented from aising at all (by withholding additional supplies of new currency), then sterling exchange would rive by leaps and bounds. This is objectionable for many reasons. But I see no reason why sterling exchange should not, in such conditions as assumed above, be allowed to move upwards gradually to a new level for the only alternative would be a great rise of prices within India is a great loss of purchasing power of India s existing Mone; lools And this spells hardship and misery for millions, and the creation of a seedbed of hostility to all ruling authority

I believe it to be quite possible for Government notwithstanding erratic political pressure and conflicting standards of currency management to steer a middle course along the line indicated above as indeed Government appear to have done during the last two years avoiding both violent fluctuations in sterling exchange, and

marl ed changes in the purchasing efficacy of the rupee within India

PART III -REPLIES TO THE COMMISSIONS QUESTIONS OF 24TH NOVEMBER 1925

(#) With the above definitions and guiding principles in mind I venture to answer below the nine questions issued in Delhi on the 24th November 1925 to the Press by the Government of India on behalf of the Commission

1-(a) Is the time ripe for a solution of the problems of Indian currency and exchange by measures for the stabilisation of the rapee, or otherwise? Answer-

No certainly not if by 'stabilisation of the rupee is meant 'attempting to fix permanently the ratio between the rupee and the sovereign or pound sterling

My reasons for this conclusion are-

(1) Uncertainty as to the future of gold (2) Uncertainty as to the future of the European exchanges, most countries in

continental Europe being in financial difficulties

(3) Uncertainty as to Great Britain's ability to maintain parity between the sovereign and the pound sterling so long as her export trade is handicapped by local and national indebtedness of a magnitude unprederented in her

(4) Uncertainty as to the consequences of a succession of had seasons in India with Indian prices at their present high level relatively to pre-war price

levels in India

It would certainly increase confidence and enterprise on the part of many engaged in foreign trade -but a small number however relatively to the whole populationif Government could see then was to announce that they are prepared at all times (a) to sell points sterling it say Rs 13 3 if the public require iemittances to England, and (b) to issue additional rupes currency at the current marl et rate of the day to an extent that would guard against rapid or great rises in steiling exchange having regard to the necessity of guarding also against rapid or giert rises of runee prices

More than this I could not recommend at present

(b) What is the comparative importance of stability in internal prices and in foreign exchanges? Answer -In the interest of hidia as a whole I consider that Government should regard stability in internal pieces as of greater importance than

stability in the foreign exchanges

This, because of the very great magnitude of India's population and the small means and consequent helplessness of the vast majority of that population In such circumstances Government ought to take every possible step to gavid against any failure of the people's loney Tools. High prices for non tood products grown in Indian quickly affect the prices of food and clothing and other simple necessaries which ought not to be allowed to soar out or the people's reach. So far as supper prices in India may be affected by issues of new currency it should be one of the first duties of Government to maintain the efficiency and stability of the country Chief Purchasing Tools

Instability in sterling exchange is no doubt vexatious and troublesome to Government and to the relative few engaged in foreign trade but provided it benot allowed to run to extremes is not fital or even a very serio is matter Exchange Banks will always at a price cover exchange risks. And the price is

generally rea onable and very small

(c) What are the effects of a rising and a falling rupee and of a stability of a high or a low rapee on trade and industry including agriculture and on national finance? Answer -An exhaustive reply to this question would mean a lengthy treatise!

Briefly a rupee rising in general purchasing power (as evidenced by a general fall of prices) inflicts unexpected losses on all producers and stockholders, checks enterprises numbs industry and cruses a general slowing down of economic effort So far as sterling exchange is concerned it temporarily checks exports and stimulates

On the other hand a rupee falling in general purchasing power (as evidenced by a general rise of prices) transfers unmerited profits to all producers stockholders, merchants mildlemen and speculators and so stimulates all forms of productive and speculative activity at the expense of the great mass of fixed ware earners pensioners rent ers and others who suffer unmerited and possibly cruel hardships. The fall in sterling exchange temporarily stimulates exports and checks imports

A stable rule e whether of high or low purchasing power simply permits (a) world prices of products of which India enjoys a monopoly to adjust themselves to Indian costs of production and (b) the Indian prices of products produced in other countries as well as India to adjust themselves to world levels. After the adjustment has taken place there is no advantage to India either was -whether the rupee be of high or low

ralue

So far as National finance is concerned as India has to purchase over £30 000 000 sterling annually to meet her sterling liabilities it would appear at first thought that the greater the purchasing power of the ripee in relation to sterling (in other words, the higher the rate of sterling exchange) the better it should be for India. But this conclusion is subject to many qualifications and limitations. If for example, this increased parchasing power be brought about by world conditions, including possibly a change in the value of gold that have not caused a corresponding general fall of prices in India then India gams for the time being till further world adjustments in prices have tal en place. The number of variations and combinations in local and world conditions is so great that it is impossible in this place to discuss all possibilities that might result from s ch variations and combinations

2 In relation to what standard and at what rate should the rupee be stabilised if at all? When should any decision as to stabilisation take effect? Ansuer - The rapeo-silver and paper—i such an efficient Monetrry Tool so fur is the great majority of Indris vast population is concerned that I cannot recommend its relegation to a secondary place in India's currency system in the present state of APPENDIX 90 591

the world smonetary affairs. If, however, it be thought necessary in the interest of India" to attempt to stabilise the rupce in relation to some other currency, then the sovereign or the pound sterling would certainly be the best directions in which to turn

Of these two, the sovereign would probably be the better. But if this were done, and Great Britain should find it impossible for my reason hereafter to maintain the pound sterling at par with the sovereign (sovereigns have not been in circulation in the United Kingdom for many years past) great confusion would arise, for we should probably see two exchange quotations for the ruper current every day—one for the pound (sterling) and another for the pound (gold) I would therefore urge extreme cantion, and a deferring of the decision to attempt stabilisation with Great Britain currency till we have had more experience of the European and American exchanges under the conditions unidst which we are now working

3 If the rate selected differs materially from the present rate, how should transition be achieved? Answer -If the rate selected were materially lower than that current at the time of selection trinsition could only be effected by putting more cirrency into enculation, thus raising pieces, checking exports redicing oversers demails for rupees and so lowering sterling exchange. I most strongly deprecate any such deprecation of India's Money Tools

If the rate selected were materially higher than that current at the time of selection, then transition could be expedited by withholding issues of new currency, thus Intering prices atmoulating exports and checking imports increasing over-eas demands for Indian currency and the sterling cost of rupees. Such action must be even more strongly leprecated than a delaberate depreciation of the currency however, para (6) above

1-(a) What measures should be adopted to maintain the rupce at the rate selected? Ansicer - Much the same is before the War, except that opportunities for remitting from and to India at definitely fixed rates should be increased, and in

view of present price levels the Gold Standard Reserve enlarged

(b) Should the Gold Exchange Standard system in force before the War be continue I, and with what modifications, if any? Answer -Yes, but with the following developments -

(I) The Gold Standard Reserve to be increased to at least £50 000,000

(2) 'Heverse Councils' to be always on tap' at the larger Branches of the Imperial Bink of India at a fixed rate, and in sums of Rs 10000

and over

(3) The Secretary of States Budget requirements to be obtained through the Imperial Bank of India who would provide him with the necessary sterling, and recoup themselves by duly sales in London of Transfers on their leading Indian Branches, and daily purchases in India of sterling transfers on London at rates fluctuating according to market requirements between maxima and minima fixed by Government. The Government of India to place the Imperial liank of India in funds in India as required in connection with the Bank's sales of Transfer, on its Indian offices

(1) Demands by the public for remittances to India over and above those provided by the Imperial Bank of India in connection with the Secretary of State 8 Budget requirements to be met from seles by auction in London of Currency Council Drifts on the Indian Trensuries at the chief Indian Ports Currency Councils not to be available till the Imperial Bank of India had sold in I ondon and bought in India sufficient Budget Transfers

to meet the Secretary of State's Budget requirements for the year

(5) Proceeds of Currency Council Dialts would ordinarily be devoted to the purcha e in I ondon and shipment to India of specie or bullion for enlarging the Indian currency, but might be retained temporarily in London in a Special Invision of the Gold Standard Reserve of Government for any leason did not consider it necessary to add immediately to the volume of the Indian currency in the ordinary way

(c) What should be the size composition location and employment of a Gold Standard Reserve I namer — At least 450 000,000 half mgold and half in stering securities I he gold to be held in the Indian Tressuries and the securities by the Secretary of State in London The Reserve to be employed to maintain sterling exchange at the runmum point agreed upon

5 -(a) Who hold be charged with the control of the note issue and on what principles should control of management be transferred to the Imperial Bink of India? What should be the general terms of transfer? Answer - The Government I im strongly opposed to any transfer of authority in the matters of manufacturing and issuing new c irrency from Government to any Bank I consider the Bank of England system wholly unsuitable to India The maintenance of the puchasing power of a country s Money Icols is one of the first duties of every Government and the Government of India perhaps more than most Government must cury out this duty with the utmost punctilionsness. The Government of India s Money Icols have always been and must always continue to be above Indian currency notes are growing in popularity daily-a development which Government should do everything to encourage

So far as the month to month day to day management of the currency assued by Government is concerned (including the provision of temporary supplies of Money Looks for the moving of the crops &c), the present arrangements with the Imperial

Bank of India seem to me adequate

(b) What provisions should be made as to the backing of the note issue? Answer -The present arrangements appear to me adequate with the exception of Government's own Securities which are not an altogether satisfactory backing for Government notes

In this connection I may mention that I see no good reason why Government should not issue special bervice Notes as currency (e.g. notes backed by remunerative public works), provided such Voncy Tools could be put into circulation without materially lowering the efficiency of the Tools already in use. An appropriate time for such an issue would be when a tendency towards a general fall of prices was becoming manifest. From the revenues derived from the public work constructed by the aid of these special Money Tools a Sinking I and could to provided for the acquisition and withdrawal from circulation of the whole of the special issue in say 30 years

The economies grined by the employment of capital on which no interest would have to be paid are obvious, and might enable much needed public works to be initiated the construction of which might otherwise be delayed

(c) What should be the facilities for the encashment of note-? (d) What should be the policy as to the issue of notes of small value? Austers—The more the better In the meantime present arrangements seem satisfactory. I believe one-rupee notes to be costly to maintain and insanitary

Therefore I am against the issue of any note under five rupees

6-(a) What should be the policy as to the minting of gold in India and the use of gold as currency? Answer -Having regard to the facts that the great dangers to India of the opening years of the present century no longer exist that much uncertainty exists as to the future value of gold (most countries have now abandoned its use as currency and employ it only as Reserve Money available for the adjustment of international balances) and that the chief countries of Europe—including Great Britain-are still only in process of a gradual and difficult recovers from the effects of the Great War their financial and economic conditions still being very complicated I no longer feel that it is urgently necessary in he interest of India' that India should now have a gold currency Gold Money looks are an expensive luxury in these days of heavy national indebtedness and I advise a writing policy. India 1, doing very well indeed with her present Money Lools

At the same time I should be inclined to aim at the eventual establishment of a gold monetary system in India the currency to include (a) gold backed notes (b) gold coins of large value only say Rs 20 to Rs 30 each and (c) a large volume of

subsidiary silver coinage legal tender for sums up to Rs 100

(b) Should the obligation he undertaken to give gold for rupees? Answer -No not until the Indian currency contained a large proportion of gold coins But the Government must be prepared to sell Reverse Councils as suggested in my reply to question 4 (b)

7 - (a, By what method should the remittance operations of the Government of India be conducted?

(b) Should they be managed by the Imperial Bank? Answer - See my replies to question 4 (b)

8-(a) Are any, and if so what measures desnable to secure greater elasticity in meeting seasonal demands for currency

(b) Should any, and if so what conditions be prescribed with regard to the issue of correctly against hundred? Answer—So far as I know, the present arrangements are working quite sitisfactorily

9 Should any change be made in existing methods for the purchase of silver? Inswer -Yes, the Government of India should call for tenders for such silver as it may require for currency purposes in Bombry as well as in London, and in special

cases in any other part of the world that they may deem suitable

I would here repeat that having regard to the uncertainty that dims the future of gold of sterling exchange and of the European and American exchanges generally, and also to (b) the general prosperity and very strong economic position of India as a whole, I see no reason why India should hasten, at this particular moment to attempt to discard (and thereby discredit) her very efficient Silver Money Tools and substitute Gold Money Icols in their place the more especially as the introduction of the e new and expensive Gold Tools would necessitate the fixing of a ratio of exchange between the silver and the gold tools (or between the rupee and sterling) that might be very difficult to maintain except by disregarding the efficiency of the Money Tools already everywhere in use by the great majority of the masses of India Therefore I would urge the utmost caution should be our policy

India as a whole appears to me to have arrived at a higher level of material prosperity and with far larger accumulations of wealth than she has ever before enjoyed at my previous period of her history. There is no necessity to invite

-currency complications at this particular time

APPENDIX 91

Statement of evidence submitted by the East India Section of the London Chamber of Commerce

(A) A proposal to place Indian currency on a gold basis

1 The Executive Committee of the Section is impressed with the fact that there has not been time to readjust economic relations of the world which were so violently disturbed by the Great War, and this may be seen by wide fluctuations in exchange values

2 The effect of placing Indian currency on a gold basis with gold coins as an mernal medium of exchange would involve a deurnal for gold which in the opinion of the Trecutive Committee would greatly exceed the estimate of £103 000 000 mentioned an Indian gold currency would be used far beyond the boiders of India and gold com would be likely to be hoarded in very much larger quantities than is gold bullion at present

3 These considerations would in normal times lender the establishment of a gold standard in India a daring experiment of the first magnitude Under the present abnormal conditions such an experiment would in the opinion of the Executive

Committee be fraught with danger to India and to this country

4 For these reasons the Executive Committee is of opinion that the present is not an opportune time in which to introduce a gold currency in India

(B) A proposal to stabilise the rupee

- 5 If it were possible to stabilise the rupee as soon as it reached an exchange level which would in future be likely to represent normal it would, in the opinion of the Executive Committee be desirable to do so (the attempt to stabilise the rapee at 2s must now be definitely regarded as having been a complete fullure) At the same time the Lecentive Committee is not satisfied that it would be possible in all the circumstances surrounding the case to membran the rate at 1s 6d. In this councetion thas to be bone in mind that for five years in succession there have been good monsoons. Should the favourable cycle be broken it may be found that the normal exchange value of the rupes will be never 1s 4d than 1s 6d. In vew therefore, of the uncertainty as to whether the present rate can be legarded as normal, the The uncertainty as a whether the stabilisation should not be undertaken until India has passed through a year of bad harvests
- 6 Whilst it is true that a 1s 6d rate should print facie, assist imports from this to whilst it is true that a 10 of a law should prive judge, assist imports from this country into India, it must be remembered that that rate operates against the export or Indian produce and so reduces the purchasing power of India

APPENDIX 92

Statement of evidence on the Indian Currency Problem, submitted by Professor Gustav Cassel.

I -THE GENERAL BACKGROUND

When the Commission asked me for my views on the question of the Indian Currency, the Commission presumably desired my opinion on the effects on the world's economy in general of a reform of the Indian currency and particularly of an eventual introduction of a gold standard with a gold circulation in India. This question is essentially that of how an increased monetary demand for gold on the part of India would affect the supply of gold at the disposal of the rest of the world and thereby the general level of prices in gold standard countries.

In order to elucidate this question it is clearly necessity, first of all to show how the general level of prices is affected by variations in the gold supply, and what the gold supply ought to be in order that the general level of gold prices should remain constant. In investigating this question we have necessarily to take account of the world's total supply of gold. In other words, we cannot be content with considering merely the stock of gold of a single country, nor, as is often assumed the world's monetary stock of gold. Neither of these quantities has an independent existence. In a gold standard gold is free to move between countries as well as between the monetary and the industrial stock of gold. This mobility of gold is a fundamental chriacteristic of the gold standard. We have, therefore necessarily to find out how the general level of prices in a gold standard depends on the world's total supply of gold. An investigation into this question is contained in my 'Theory of Social Economy, London, 1923, and the results are summed up in my Fundamental Thoughts in Economes' London, 1925. I shall take the liberty in the following of quoting

some passages from this summary

The economic progress of the world must, of course, make an increased supply of gold necessary if the value of gold is to be invariable, i.e., if the general level of prices of commodities is to be constant. We cannot, therefore, speak of a superfluity or a scarcity of gold in any period without referring these conceptions to a supply which can be regarded as normal for this period. But what supply is normal? That is the equivalent of asking. What rate of increase in the world's gold supply has been necessary during a certain period to enable the general level of prices to remun constant during that period? Of course, this question can only be answered by experience, ie by collecting statistical material for a lengthy period. To this end, the period from 1850 to 1910 is particularly convenient, because the general level of gold prices in 1910 was practically the same as in 1850. In this period, however, the world's total stock of gold was multiplied by the figure 52, which corresponds to an annual increase of 28 per If, therefore the world's stock of gold had increased uniformly during the whole period by 28 per cent every year, the stock in 1910 would have been precisely what it actually was and there would have been no reason why the supply of gold should have caused any variation in the general level of prices in the meintime. Such a uniform growth of the world's stock of gold from 1850 to 1910, therefore may be taken to represent the world's normal gold supply for every year of that period The actual gold stock of the world was greater for a part of the period and smaller for the remainder, and we are in a position to gue in precise figures a measure of the superfluity or scarcity of gold at any time of the period under consideration. For this purpose I have introduced the conception of a relative gold supply, which is for any given year the actual gold supply divided by the normal gold supply

The relative gold supply is the only factor which can reasonably be assumed to have any influence on the general level of prices. The object of our investigation must therefore be to find out how far the actual variations of the general level of gold prices during the period from 1850 to 1910 are explained by corresponding variations in the relative gold supply. Thus we have to compare two curves of which one represents the relative gold supply and the other the general level of gold prices. It is then immediately shown that the latter curve contains sharp short time fluctuations which have no counterpart at all in the very even curve representing the relative gold supply. These price fluctuations are castly recognised as connected with periods of prosperity and depression. We can immediately draw the conclision that trade cycles have nothing to do with the supply of gold. Eliminating the corresponding short time price fluctuations.

from the curve representing the general level of prices, we find a curve which corresponds to our curve of relative gold supply in a most striking minner. The conclusion is that the long time variations of the general level of prices essentially

depend upon variations in the relative gold supply

According to these definitions a superfluity of gold was ruling in the 'fifties and the 'sixties of the nineteenth century, and the general level of prices rose This superfluity was diminished during the following decades correspondingly and by about 1887 the supply of gold as well as the general level of prices had again become normal In the middle of the 'nineties a scarcity of gold prevailed f prices sank beneath the normal level In 1910 the total and the general level of prices sank beneath the normal level In 1910 the total supply of gold and the general level of prices were again normal. The rise of the general prices in the sixties and the fall of the general prices in the 'nineties were both greater than what would exactly have corresponded to the superfluity or scarcity of gold, and it may perhaps be inferred therefore that the movements of the general level of prices have a certain tendency to enlarge the influences of a superfluity or a scarcity of the supply of gold. If the world's total stock of gold is to increase by 28 per cent per annum, the annual production must not only correspond to that factor, but must also make up for the year's definite loss of gold which may be taken on an average to represent 02 per cent of the total stock. Thus the annual production must amount to 3 per cent of the total stock at the beginning of every year. Should the production exceed this amount of 3 per cent, the general level of prices must rise by the difference, again should be a per cent, the general level of prices must rise by the difference, again should be a per cent, the general level of prices must rise by the difference, again should be a per cent, the general level of prices must rise by the difference again. the production fall short of the said amount of 3 per cent, the general level of prices is bound to fall by the difference eg if the world's production of gold in one year should only amount to 2 per cent of the total stock at the beginning of that year, we have to expect a fall in the general level of prices of 1 per cent Naturally, if the same shortness in the production of gold should prevail for a series of years the fall in the general level of prices must continue at a rate of 1 per cent per annum

As the annual supply required for stability is a certain percentage of the stock accumulated it must obviously grow at the same rate as the stock itself.

This is a very important conclusion. Indeed, the consequence is that, if the production of gold however abundant it may be at the present moment should remain constant it must become insufficient within a certain number of years production increases the stock and when the stock grows the annual increase of the stock which corresponds to the economic progress of the world must grow likewise, and sooner or later outgrow the constant production. If the annual production of gold falls short of the percentage of the accumulated stock required to meet economic progress the general level of prices in a gold standard is bound If, therefore the world should be confronted with the impossibility of increasing the annual gold production, and consequently with the necessity of being satisfied with a constant gold production-not to speak of the case of an actually diminishing production-the world would have to face a continual and incessant fall of the general level of prices with a consequent economic depression Thus the gold standard must be said to be a satisfactory standard only on the condition that the world is able to increase indefinitely its annual production of gold at the same rate as characterises the worlds general economic progress

My calculations show for the end of 1910 an accumulated stock of gold of £2 600 millions. This stock had increased by the end of 1923 to £3 623 millions. The actual gold production amounted in 1924 to £794 millions representing only 2 19 per cent of the accumulated gold stock at the beginning of the year. Assuming that a yearly production of 3 per cent of the accumulated stock still represents the normal requirement we here find a deficiency of 0.81 per cent. In absolute terms the gold production ought to have been £1907 millions. As it was only 794 millions there was a deficiency of £20.3 millions. In 1925, a production of 3 per cent of the stock, at the beginning of the year would have represented £1109 millions. In relativity was only about £21 millions and thus there was a deficiency of £29.9 millions representing in percentage of the accumulated stock, 0.81. It is worth noting that the absolute deficiency is increased and the relatine deficiency is unaltered—in spite of a considerable increase in the

production

It is clearly seen from these figures that the present height of gold production
is entirely insufficient for keeping up what we were accustomed before the War
to regard as a normal economic progress requiring an annual gold production of

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The original calculations on in gold marks, and I have converted them here to pounds at the rute of 20 marks for \$\frac{1}{2}\$.

3 per cent of the accumulated stock. If this scarcit of the gold supply is not felt at present as a serious eril this is only due to the fact that during the period from the beginning of the War to the end of 1924. Americal has accumulated quite an abnormal monetary reserve of gold. During the time of inflation gold was expelled from a number of European countries and mo it of this gold was accumulated in the United States. The American authorities have taken the veri sound view that this gold stol. In so far is it exceeds the normal requirements of the country is to be regarded as held in trust for the rest of the world and particularly for European countries which may want to get the gold back again as they gradually return to the gold standard. The American gold reserve has therefore not been used as a foundation for bank credit to such an extend as would correspond to usual traditions the Federal Reserve system having seen its ratio of total reserves to deposit and note habilities run up for some time to 80 per cent and more

People in Europe however have often tallen quite an exaggerated view of the American superfluity of gold It has been said that this superfluity would force America to a great inflation of her currency with the consequence of rising prices and it has also been believed that Europe would run the great risk of being overflowed with American gold On several occasions I have uttered warnings against such exaggerations and tried to make it clear not only that there was no reason for assuming the growth of the American gold stool to be unlimited but also that the part of this gold that could really be regarded as superfluous was no greater than would admit of its probably being absorbed in a comparatively short time. The actual course of events has confirmed this view Towards the end of 1924 the gold stream took a new direction and 1925 showed a net export of gold from the United States of 1344 million dollars True this is not very much in comparison with the great accumulation of gold in the United But still it has proved enough to cause people in Europe to take a more reasonable view of the limits of the excess of gold in America and also to bring about a slight alteration in the American conception of the situation. In fact there are several signs that go to show that people in the United States are no longer so eager to get rid of the superfluous gold but are rather inclined to keep themselves ready to protect their gold reserve if it should be exposed to in increasing demand from abroad. This change of mind is natural enough. The merchandise trade balance of the United States is no longer so favourable as it From the figure of 981 million dollars for 1924 the excess of exports was reduced to 6845 million dollars in 1925 The latter figure being much less than the foreign loans granted by the United States during the year there is room for foreign demands for gold Of course America can easily protect her self against such demands by measures restricting her capital market. But such a policy would mean precisely that America would keep her gold stock for herself with the result that her extraordinary reserve of gold would no longer be at the disposal for the rest of the world

It is very instructive in this connection to rend the National City Bank of New Yorks review of the gold situation of the United Stries (in their Report for February 1926). The utricle referred to gives for the 1st July 1925 the total of gold can and bullion in the United States Treasury and Federal Reserve Banks at 3 962 million dollars and the total of notes and deposit liabilities of all bunks at 50 969 million dollars. From these figures the ratio of gold reserve to liabilities is calculated to be 77 per cent. For the end of 1924 the corresponding ratio of gold reserve to liabilities for Greut Brituin is calculated to be 65 per cent. The difference is small and the higher gold cover of the United States is according to the article very well accounted for by the peculiarities of the American banking system. The important feature in this reasoning is the fact that leading people in American now think the time has come when the gold reserve of the country must be defended as not being superfluous.

Still according to acknowledged standards the gold reserve of the Federal Reserve system as doubtless somewhat higher than necessary. On the 30th December 1925 the reserve ratio was 673 per cent and thus from the traditional point of view there could be no reasonable objection to further gold exports. If we assume however that by such exports the reserve were to come down to 50 per cent we may be sure that the Federal Reserve authorities would take strong measures to protect their reserves. Such a reduction in the reserve percentage must therefore be regarded as the maximum. In other words of the 673 per cent 173 per cent could possibly be regarded as an excessive reserve. In absolute figures the combined liabilities amounted on the said date to 4 192

million dollars 173 per cent of this sum is 725 million dollars. This is there fore the maximum amount to which we can reasonably estimate the excess stock of gold According to the views now prevailing in America the excess stock is doubtless much smaller it it exists at all

As now the deficiency of the world's gold production according to the above calculations amounts to about £30 millions or nearly 146 million dollars our calculated maximum excess stock of gold in the United States does not cover this deficiency for more than five years. Of course objections may be raised against these figures They cannot pretend to be exact But they are built on the best material as ulable and they give without doubt the essence of the whole problem of the world's gold supply as it presents itself for the time being

Our result clearly shows that we are now rapidly approaching the time when the deficient gold production will make itself felt in an actual scarcity of the total gold supply of the world Of course we cannot know anything about the future development of gold production But assuming the gold production to rem in at its present leight the total stock of gold is bound to increase and then the annual production required for leeping up a certain economic progress must increase in the same proportion. With an unrestricted demand for gold a growing scarcity of the metal with the consequence of incessantly falling prices is therefore mentable unless a very important increase in the world's gold produc tion can be expected or unless the world is going to acquiesce in a slower degree of economic progress than that which characterised the period 1850 1910 These are the fundamental features of the present gold situation

Under such circumstances it is natural enough that every effort should be made to economise the use of gold. A prolonged period of falling prices without any prospect of a definite end would bring about a continued depression of the world s economic life and must therefore be regarded as one of the most serious economic culs which could be full human society. A systematic economy in the use of gold is however practically possible only as far as concerns the monetary use of the metal. Since the very beginning of the after war reconstruction I have regarded this economy in the monetary use of gold as an essential element in the whole work of reconstruction. This view has been shared by leading authorities. It found official expression first in the resolution of the Genoa Conference which recommended that a certain economy in the use of gold should be aimed at by the concentration of the reserves of note resuing banks. The extension of this economy to the use of gold as a circulating medium was at that time not possible to get incorporated in the resolutions. When however in time not possible to get incorporated in the resolutions April 1925 Great Brit un returned to the gold standard the idea had ripened that owing to the scarcity of the world's gold supply it was necessary to refrain from bringing gold come into circulation. Mr. Churchill's gold standard retained only the very kernel of the gold standard viz the maintaining of the currency within the neighbourhood of a constant parity with gold

This is the model for the monetary system of the future. The programme should be no gold in circulation and the greatest possible concentration of gold reserves not only within every nation but also internationally. This limitation of the demand for gold is to the common interest of all nations masmuch as everyone of them is interested in the highest possible stability of the purchasing power of its money and in preventing any growth of the real burden of its public debt

What absolute purchasing power our money has is of course of no importance the only relevant point being that the purchasing power is lept constant. As a matter of fact, the restoration of the gold strudard as an international monetary system has been carried through at a price level—measured according to the index number of the Federal Reserve Board—of about 160 (corresponding to about 150 of the Bureru of Labour) Had the American price level fallen escentially below this point it is extremely doubtful whether other nations would have found it possible to carry through the corresponding deflation and to restore the pre war parity of their currencies. Now that this has been done in a series of cases it is essential that the nations concerned should not be forced to a further defirtion with all its permissions consequences

The question is simply this will it be possible to keep the general level of The question is simply and the beginning of positive to keep the general level of pitces at about the heal; I denoted by the quoted undex figures? The answer is given by the above analysis. We shall have in all probability to face a growing secretic of gold a secrecity that can only be overcome by progressive reductions in the world's monetary demand for gold. All nations must co operate in this If any country chooses unnecessarily to increase its demand for gold

we may be sure that other countries will answer by increasing their demands, or at least by measures calculated to protect their reserves, locking them up so as practically to withdraw them from the world's common fund of gold. With united efforts it seems fairly certain that we shall be able to prevent any considerable fall in the general level of prices for at least one or two dicades.

What will happen thereafter it is of course impossible to tell If the general progress of the world should require an annual addition to the gold stock far greater than the world's gold production can supply, and if we have exhausted all our gold economising devices, a continued and unlimited fall in the general level of prices will be inevitable. If the world then finds it necessary to avoid this calamity there will be no other alternative than to abolish the gold standard Most people have hitherto regarded such a step as practically impossible, and certainly it would have been very unwise to try it under the conditions of extreme disorganisation and mistrust which prevailed after the war But after a pro longed period of international co operation towards stabilising the purchasing power of the world's currencies, the situation would be essentially altered very habit of deliberately regulating the value of gold by a systematic economy in the monetary use of the metal would be the best imaginable preparation for the future regulation of currencies without the use of gold. In stating this I do not overlook the difficulties. But in face of the great danger of a serious and progressive scarcity of gold the world would be forced to find a way out course, the abandonment of the use of gold for monetary purposes would cause an enormous fall in the value of gold All those interested in the value of gold be it as producers or as possessors of gold funds, should observe that a policy pre venting the value of gold from rising is from their point of view very much to be preferred to a development which would allow the value of gold to rise to such an extent that the world would be forced entirely to abandon gold for monetary purposes

One might perhaps be inclined to believe that the world's ammed monetary requirements of fresh gold might be diminished if the general level of prices were allowed to fall to a certain lower level. But this is not so. The annual need for gold, required for keeping the price level constant is independent of the actual level of prices and is exclusively determined by the rate of progress of the world's economic life multiplied by the accumulated stock of gold of the world. The world annual need for gold would therefore be the same as it is now, even if there had been no rise of prices since 1913.

A rise in the general level of prices has, on the other hand, necessarily a restricting influence on the annual production of gold. If this influence has not hitherto made itself very keenly felt in the most important centre of gold production, South Africa, the explanation is only that the rise in prices of commodities in South Africa has been slower than in Europe and in America. If prices in South Africa were gradually to rise to a level with the world prices, a certain decrease in the South African gold production would necessarily follow and could only be balanced by progress in the gold mining industry. People who are inclined to reckon upon an increase in the world's gold production from new discoveries of technical improvements should not quite lose sight of the counterbalancing influences of a probable rise in the cost of living at gold mining centres.

II - CRITICISM OF THE PROPOSAL TO ESTABLISH A GOLD STANDARD IN INDIA

A gold standard can take many different forms, and a criticism of the idea of introducing a gold standard in India will gain considerably in clearness and definiteness if it is referred to a particular scheme. It is, therefore, a great advantage that a "scheme for a gold standard for India" has been drawn up, and as it has been communicated to me, I shall refer the following observations to this scheme.

Such a scheme must be judged in the first instance from the point of view of its effect on the scarcity of the world's gold supply, the significance of which has been set forth in the foregoing paragraph. It is necessary, therefore to ascertain what extra gold requirements will be brought about by the establishment of a gold standard in India in accordance with the present scheme. An extra demand must of course, arise first of all for currency purposes. This extra demand—the only one of which the scheme takes any notice—is calculated at 103 millions, and the scheme gives certain figures as to the distribution of this demind over the different stages which have been suggested for the gradual introduction of

the scheme Having no particular knowledge of Indian conditions I take the statistical figures as they are presented. But with regard to the calculations based on these figures, I venture to offer the following remarks

As the plan is to be carried through in 10 years, it is hardly satisfactory to calculate "the gold ultimately required for the reserve" on the basis of the present note circulation Rs 1895 crores With the efforts now being made to develop not only the banking system of India, but also generally the economic life of the country, it must necessarily be expected that the note circulation will grow at a certain percentage per year An estimate of this percentage should be an important element in the plan Considering that the note circulation has grown from 66,12 lakhs in March, 1914, to 1,89,51 lakhs in September, 1925, it seems not unreasonable to assume that persistent and systematic efforts to further the use of bank notes would result in the doubling of the present note circulation within the proposed transition period of 10 years. The 30 per cent gold reserve required according to the scheme would then, at the end of the period, represent not 569 crores, but 1138 crores. Thus the total sum required for the currency reform would not be 1372 crores, as given in the scheme, but 1941 crores, i.e., £1456 millions instead of £103 millions. But this is not all. If the law requires the Central Bank to keep normally a gold reserve of 30 per cent, the bank will according to all experience, find it necessary to keep ordinarily a much larger reserve. Assuming that the bank in order to be on the safe side, keeps a reserve of, say, 40 per cent, the need for gold for the reserve will ultimately amount to 1516 crores and the total sum of gold required for the monetary reform will be 231 9 crores, or £173 9 millions, instead of £103 millions I quite realise that there may be reasons for assuming a slower growth of the note circulation, so I do not wish to press my figures, but put them forward only to draw attention to the considerable increase in the supposed gold demand which must be taken account of as probable

With respect to the distribution of this demand over the transition period the calculations are, as far as I can judge, untenable It is said that in Stage I "comparatively few hoards would be large enough to buy the minimum quantity sold by the currency authorities" But if the bullion merchants step in as intermediaries, it is difficult to see why the size of individual hoards would be of any importance the merchants always being able to present enough silver to buy the minimum quantity of gold They would, therefore not only "lay in stocks in anticipation of demand," but also immediately act as representatives of the hoarders It seems very possible, therefore, that the first demand from these sources might considerably exceed the calculated sum of Rs 50 crores But I leave this point, and accept the given sum of 50 crores as good. Then it seems to me that the authorities must have that sum of gold at disposal in order to meet the first demand on the introduction stage. The idea that the sum to meet the first demand on the introduction stage required could be diminished by the 30 crores of gold in the note reserve seemto me incomprehensible If a country wishes to establish a gold standard, it seems a very strange measure indeed to begin the operation by completely exhausting the gold reserve on which its note circulation is founded procedure would hardly strengthen the confidence in the new monetary standard It seems certain therefore, that the Rs 30 crores gold in the note reserve would have to be left untouched, and that the assumed demand for Rs 50 crores would have to be sett should not all the about deal to the solution of the solution of the scheme the minimum reserve to be allowed is 20 per cent of the circulation. With the assumed initial note circulation this minimum would amount to 379 crores which is about eight crores more than the existing reserve It would then seem to be a necessary preliminary measure before introducing Stage I, to increase the reserve by at least these eight crores. Thus the minimum sum of fresh gold required at the introduction of the scheme would be 53 croreor £435 millions This is almost three times as much as the sum calculated in the «cheme

Thus we find that the gold requirements arising out of the proposed reform of the Indrin currency are much higher and much riore concentrated within the infull period thin his been resumed in the scheme. There is however, room for another objection which will perhaps turn out to be of still greater importance. The scheme has taken account only of the amount of gold needed for meeting momentury obligations. But in connection with the introduction of the gold standard and the demonetization of silver we must expect a very considerable demand for gold to arise on the part of the hourders of silver in forms other

than rupees The demonetisation of silver will probably cause a sharp fall in the value of silver, and, in consequence, a distrust in silver as a suitable means of hoarding treasure I he effect on the demand tor gold may be twofold

I irstly, the present owners of metallic silver may be eager to exchange that metal for gold and throw large amounts of silve on the market in order to acquire gold. This would, of course, aggravate the fall in the value of silver, but would still represent a very considerable demand for gold. Naturally only one very conversant with Indian conditions can form any opinion of the probable size of this demand and of the way in which it will be distributed over the transition period. But prima facet, and to an outsider, it seems not unlikely that this demand may assume the same dimensions as the demand for an exchange of silver rupees calculated in the Scheme to represent Rs. 110 cores, or £5.25 millions.

Secondly, the very distrust in the stability of the value of silver may have this effect, that such future hoards as would under the old conditions have been accumulated in silver will instead be accumulated in gold. The average annual importation of silver into India for use in the arts, as ornaments, and for all purposes other than comage, for the last five years is given at the figure of 81 million fine ozs which, at the present price of about 30d per standard ounce, would represent about £11 millions If this treasure should in future be accumulated in gold instead of silver, an additional demand for gold of £11 millions per annum would arise. For the transition period alone that would mean £110 milions extra worth of gold Of course it is possible that the change in the habits of the hoarders would not be so radical, and that when the value of silver had been stabilised at a lower level, the hoarders would again direct a considerable demand towards silver But in the transition period, and particularly in the beginning of it it seems probable that from this source would arise a very considerable extra demand for gold

In addition, it seems necessary to take account of the increase in the general Asiatic demand for gold which will be a consequence of the introduction of a gold standard in India, with gold as circulating medium. With the intimate trade relations between India and the interior of Asia, it seems certain that gold coins circulating in India, and being generally used there as means of payment would find their way in great quantities to other parts of the Asiatic continent, and that finally gold coins would become a general means of payment in Asia. In this case, the introduction of a gold circulation in India, will have

very far reaching consequences on the world's demand for gold

Summing up this discussion, we come to the result that the extra demand for gold caused by the proposed monetary reform could easily attain a figure several times higher than that assumed in the Scheme It is, of course im possible to give a rehable figure for this extra demand. For the suke of mustra tion I take it at £320 millions corresponding to about four years world production of gold But an extra demand for gold of such dimensions could not but cause a most serious disturbance of the world's gold market and upset the whole policy of economising with gold outlined in the first paragraph. The direct tall of the general level of prices which would be caused by such an extra demand for gold would amount to nearly 9 per cent But the ultimate effect on the price I have aready observed above that the level would probably be far greater effects of scarcity or abundance of gold tend to be magnified in the movements of the price level But in the present case the extra demand for gold would have much more far reaching effects It has been shown in the first paragraph that much more far reacting energe to meet the world a already suffering from a considerable deficiency in the annual production of gold and that it will be possible to meet this deficiency only by systematic co operation between all nations to bring about a strict economy in the use of gold for monetary purposes It seems quite certain that the introduction a gold standard in India on the lines proposed in the Scheme with the con equent extra demand for gold would immediately cause any such co-operation It must be remembered that the extra demand for gold amount to break down ing on the above assumption during the transition period of 10 years to an annual average of £32 millions would be added to the ordinary demand of India which according to the average of the five verrs preceding the War, may be estimated at about £19 millions but which since 1922 has reached very much leging figures. Taking the lower pre war average we come to the result that the total Indian demand would amount to £51 millions which is equal to nearly 3 of the world's total annual production. Doubtless every country would find itself obliged to protect its gold reserves from in Indian demand of such dimen The consequence would be that the different gold reserves of the world

would be locked up and debarred from being used as a common fund for the In particular it must be expected that the surplus of world s gold standard gold that now exists in the United States and upon which as I have shown above the world must reckon for meeting the imminent scarcity of gold would no longer be available for such purposes. As soon as India had decided to establish a gold standard people in the United States would immediately begin to find it nece sary to protect the American gold reserve against Indian demands. Even if this protection were only to take the form of a more stringent monetary policy with higher rates of discount it would have the effect of pressing down conturnally and progressively the general level of prices both in the United States and in other countries Thus we should be freed with the calamity of falling prices and a consequent general depression of the world's economic life from which we have sought to protect ourselves by aid of a rational monetary policy For the carrying through of such a policy based on a systematic economising in the use of gold at seems to be a conditio sine qua non to prevent any great extra demand for gold from arising on the part of India The conclusion is therefore that the suggested scheme for the introduction of the gold standard in India is absolutely opposed to the fundamental interests of the world's economy at large

I wish to point out that in my opinion the results now described would be substantially the same even if the extra demand for gold should turn out to be considerably lower than has here leen assumed. Already the large Indian demand for gold has a clearly depressing influence on the general level of prices in gold

etandards

So far I have only discussed the proposed gold standard for India from the both of view of the economic interests of the world at large of course India is a part of the commercial world and thus far has the same interest as all other countries in the stability of the general level of prices and in an uninterrupted development of production and trade. But the proposed introduction of a gold standard in India must also be judged with regard to its more immediate effects on India.

In the Scheme which has been submitted an estimate has been made both of the permanent and of the initial costs connected with the introduction of the gold standard. According to what has been and above this estimate must be causiderably exceeded. But I am not in a position to form any exact idea of the sum to which the costs will actually amount.

The Scheme however has taken account only of the costs which would devolve mon the Government But a correct judgment of the plan is possible only if due regard is also taken to the loss which the Indian people are bound to suffer nice regard is not their resident depression of the price of eiler. The Scheme assumes a depression from the present price of over 30d to about 24d per standard oz which means a reduction of 20 per cent. If the exchange of silver hoards for gold were to assume the greater proportions of which I have spoken above it seems not improballe that the depression of the value of silver will go But even a loss of 20 per cent as serious enough af account as still further taken of the whole mass of silver now hourded in India For a country which has for centuries accumulated treasure in the form of silver and now possesses such huge amounts of this metal it must seem to be a rather strange policy deliberately to introduce such measures as are certain to depress the value of silver and thus to deprive the country of a considerable part of its accumulated wealth. This consideration must every day be a factor of practical importance for some holders who have to sell silver out of their hoards. It seems particularly odious to adopt a policy involving heavy losses to the poorer classes in whose hoards silver probably plays a preponderant part

Under such circumstances it seems difficult to advocate the scheme of a gold standard on the ground of the general economic interests of Indra If a gold standard is to be adopted it must be shown that such a mensure is of quite over whelming importance from a monetary point of view. This of course involves a comparison between the proposed gold standard and the present monetary conditions. The following pringraph will be devoted to a discussion of this question

III -- RECOMMENDATIONS

When a radical change of the monetary system of a country is proposed one must first of all ask whether the change is at all warranted i.e. whether the custing conditions are so bad that a sound development on the basis of them is impossible. In the material submitted to me there is nothing to show that the

present monetary organisation of India really suffers from any such serious faults as would call for a radical change. In monetary matters a sound conservatism always good policy. I therefore think that the first question to answer is this Can a really good monetary system for India be constructed by preserving the essential features of the existing system and by introducing such minor modifications as may prove necessiry?

In my opinion this is quite possible. The monetary system which India of is 4d up to the War must on the whole be said to have worked fairly well. Of course the War brought about serious disturbances and India like all other countries had to suffer from the general breakdown of the world a monetary muchinery which was a consequence of the War. But there are reasons to believe that the Indian currency suffered much less than most other currences. In fact the internal purchasing power of the rupes showed a remark-bile stability. The violent fluctuations of the exchange were to a great extent an unavoidable consequence of the fluctuations in the value of the Firsts currency and in the value of gold. Further India comparatively soon overcame these difficulties and the rupee attained a fairly stable gold value at about the same time as the pound sterling was restored to its gold parity.

The aim of the Indian monetary policy must therefore in my opinion be to stabilise the exchange value of the rupee in terms of gold. The choice of the rate of stabilisation being naturally of the utmost importance for the success of the stabilisation policy great care should be tal en in ascertaining what rate of exchange corresponds most truly to the present conditions It may perhaps be said that the relative pinces of different groups of commodities and of labour have not yet attained the necessary equilibrium to offer a reliable basis for a stable purchasing power parity of the rupee. On the other hand it is not advisable any longer to postpone the definite fixing of the gold value of the rupee A stable currency will certainly contribute very much towards stabilising the internal economic conditions of the country Whether the present price of the rupee at about is 6d is an accurate expression for the internal purchasing power of the rupee in comparison with that of the British currency is a difficult question and I have not the intimate knowledge of Indian conditions necessary to form an opinion on this subject. But the fact that it has been possible for a considerable period to keep the value of the rupee in the neighbourhood of 1s 6d seems to speak for the probability that it will prove possible to maintain this external value for the future without having recourse to any measures which would mean a deliberate alteration of the internal purchasing power of the rupee

The idea that the rupee must necessarily be restored to the pre War gold party of 1s 4d has a striking resemblance to the programme of raising depreciated currencies to their pre War parity which has played such an unfortunate role in the recent monetury policy of many European countries. If no better reason can be given for choosing 1s 4d as the value at which the rupee should be stabilised the idea eught to be abandoned and the sooner the better. If on closer investigation it is shown that the prevent purchasing power parity of the rupee lies in the neighbourhood of 1s 6d a lowering of the value of the rupee from 1s 6d to 1s 4d means a process of inflation which is just as harmful as the deflation which in some European countries would be required in order to ruse the value of the currency to a higher pre War level. The leading principle must be obtained seven currency at its present value. Where there is some uncertainty with regard to this value where for instance there is a difference between the external and the internal value we have to choose such a stabilisation rate is will cause the least possible disturbunce.

The stabilisation of an abstract unit of value at a fixed gold parity is a programme the practical possibility of which is proved by long experience. In fact the pre War rupee was for many years kept in a stable relation to the British currency and after the War it has proved possible to stabilise even the most numed paper currences at a certain gold value. The failure of the recommendations of the Babington Smith Committee should not be taken as a proof of any insuperable difficulty in the problem. In 1919 an effort to give the rupee a fixed gold value was absolutely premature. The value of gold steelf was then subject to the most violent viriations that have occurred in historic times and the conditions of international trade were still extremely unstable. In these respects the present international trade were still extremely unstable. In these respects the present situation is radically different. Since the great deflation in 1920 21 the value.

of gold from the middle of 1922 has attained a remarkable stability. The British currency has been restored to its gold parity, and the commercial world, with minor exceptions, has settled down to work on a gold standard basis. At the same time, in spite of all hindrance, international trade is returning once more to fairly regular conditions, at least in regard to its means of payment and of their general purchasing power Under such circumstances it must be said that the time is now ripe for ixing the gold value of the rupee at the level at which it has already begun to stabilise itself. The only real danger which from the side of gold could threaten such a stabilisation as the scheme for introducing a gold standard in India which has been criticised above Such a policy would undoubtedly expose the value of gold to serious and almost incalculable alterations, and would therefore make the maintenance of a fixed gold value of the rupee both a difficult and dangerous undertaking

There seems to be no doubt that the rate of stabilisation chosen by the Bibington-Smith Committee, viz -2s gold for the rupee, meant a very considerable over-valuation of the rupce in comparison with its purchasing power parity with gold at that time. But any attempt to maintain a much higher exchange value for a currency than corresponds to its internal purchasing power is inevitably doomed to failure particularly if it is not backed by the most severe measures to contract the currency and thus to increase its internal purchasing power An artificially high exchange value can only result in the balance of trade being turned against the country. This was piecisely what happened in India. Here again the inevitable failure of the Babington Smith experiment should not be allowed to discredit a rational policy aiming at the stabilisation of the rupee at a value truly corresponding to its actual purchasing power Babington Smith stabilisation policy was also so far premature that India had not yet at that time a central bank entrusted with the power to regulate the whole currency of the country

A gold standard is in its essence an abstract standard where the price of gold has been fixed not absolutely, but so far that variations of the price are restricted within very narrow limits. This is the same as to say that the unit of the currency has an approximately fixed gold value The fact that the unit of the currency is in such a way connected with gold is what essentially characterises the gold standard All other traditional attributes of the gold standard are of entirely subordinate importance. After the great revolution in the world's monetary system the fixed gold parity stands out more clearly than the world's monetary system he lived gone prive statues out more exertly than ever as the only lasting and necessary teature of the gold standard. The new British currence system is an expression for that purification of the conception of the gold standard which has now taken place. According to this view, a rupee stabilised at the value of 1s bd is essentially a gold standard. To combine the introduction of such a gold standard with a series of measures of a merely con ventional character is in fact to go back to the ideas of the gold standard which prevailed in the monetary reforms of the 'seventies of the list century

Among unnecessary accessories of the gold standard is particularly to be reckoned the introduction of gold coins in the circulation. Sweden has never allowed herself such a luxury and still has always been able to maintain her gold standard in a very satisfactory state, except for the period of War disturbances India ought to refrain from the use of gold as a circulating medium not only because it is too expensive but also because in Indian demand for gold for that purpose would as explained above, mean an intolerable aggravation of the

scarcity of gold for the world at large

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Another measure prescribed by the traditional etiquette of the gold standard is the abolition of the full legal tender character of silver coins difficult to tell what practical purpose this measure would serve The theoretical motive is of course that silver coins, the metallic value of which is considerably less than their face value should not be recognized as means of payment to unlimited amounts But bank notes have no intrinsic value at all and still usually unlimited amounts possess the quality of unlimited legal tender As long as a currency is kept in a possess the quality of different again should fall the solven grant of payment are used. What are the real drawbacks of using silver? It is true that if the value of silver should fall the silver come would have a reduced tinat II the value of sires some and the street cons would have a reduced naturance value But this is quite irrelevant, as they are not taken for their metallic content but as representatives of the rupes. Again, if the value of silver should rise, this movement is equally irrelevant as long as the silver value of the rupes does not exceed its fixed external value. In the latter case some inconveniences would be caused by the disappearance of silver coins from circulation But such an event is not very probable. The fact that it has happened in a period when the value of gold was extraordinarily depressed and the internal purchasing power of the pound sterling was still more reduced, does not make the return of such an event more probable. As has been explained above, gold is most likely to rise in value in future, and therefore the metallic value of the silver rupee in terms of gold is more likely to fall beneath the present level of slightly more than 11d than to rise above it. If the rupee is stabilised at a gold value of 18d, the margin for a possible rise in the price of silver seems to be broad enough. It is therefore quite unnecessary for India in any way to after the legal tender capacity of the silver souns. The most important interest of India in this respect is not to depress the value of silver by quite unnecessary measures tending to a further demonent sation of silver.

Thus there is no need for radical alterations in existing conditions can have a stabilised standard on a gold basis without much fresh legislation, merely by a rational development of its present monetary system The value of the rupee should be kept in a constant relation to that of gold the parity being say, is 6d gold, and only very small variations over and beneath this parity being allowed The circulation should consist of silver rupees and of bank notes both having the character of unlimited legal tender. The value of the rupee should be secured fundamentally by a sufficient limitation in the supply of these means of payment This supply should in its entirety be regulated by the central bank and fresh means of payment, whether in the form of notes or silver rupees should be put into the hands of the public exclusively in the form of advances by the From the present point of view there is no difference between Central Bank silver coins and bank notes and therefore no dualism in the conditions under which they are supplied to the public can be justified Particularly it is of primary importance that the Government should be excluded from any possibility of increasing the circulation by issuing means of payment to the public whether in the form of notes or rupees, printed or coined for the purpose Gove finance must not depend on any such means for creating purchasing power

Of course it is an advantage for India to make the fullest possible use of bank notes in her circulation To this end the system of banking should be methodically extended over the whole country, and people should be encouraged to keep their private reserves in banks or in saving certificates or other invest ments. When this becomes a general custom people will find it quite natural to use bank notes for their payments. In this way, if at all it will be possible to combat the habit of hoarding which is perhaps the most important cause of the poverty of the Indian people and the greatest hindrance to a strong economic The agricultural population of India ought, of development of the country course to use their savings primarily for the direct improvement of agriculture. and every facility should be given to supply the Indian peasant with the necessary credits for improvements beyond the limits of his personal savings. If this were done the need for hoarding would be very much reduced and India could use her present export surplus to buy agricultural machinery and implements, iron and steel and such things instead of unnecessary precious metals. In fact the Royal Commission on Indian Agriculture seems to be the body which can do most to rationalise the habits of the Indian people with regard to the use of currency

If the note circulation is to play a preponderant part in the Indian monetary system at is natural that the regulations with regard to the reserve for this note circulation should require close attention. However first of all it is necessary to make clear what is the purpose of the reserve. The old idea that the reserve in some mysterious way, supports the circulation of is a foundation of its value has to be abundoned. No reserve can give a currency a higher value than it has on the basis of a distinct scarcity in the supply of means of payment. The function of the reserve as regards the value of the currency can only be to prevent the small fluctuations in the exchange which can take place even when the internal purchasing power of the currency is kept at its right value. For this purpose the reserve must be able to furnish such amounts of foreign currency as may be demanded at any moment. Further the reserve has of course to supply the people with the silver coins that may be required.

Even the high price of 78d per standard ounce which was attained on the 17th of December, 1912 and which made such an impression on the Bablington Smith Committee corresponded only to the general rise of British commo lity prices 1s to the depreciation of stelling in terms of commodities Peckoned in commodities the value of silver was at that time by no means extraordinarily high

The reserve must protect the silver circulation as well as the note crimination. There can be no line of demarcation between these two functions. Therefore there should be only one reserve. This common reserve should as said before contain a certain amount of silver rupees in order that the notes should always be convertible into coins. It is an open question whether the Bank of India should be obliged to sell gold in bars at a fixed maximum price. If this is regarded as desirable the reserve ought to contain a suitable amount of gold in bars held in India. It is not necessary that this amount should be very large. For if any demand for gold should appear it would always be possible within a short time to increase the gold holdings in India by importation.

For the rest the common reserve would only have the function of guarantee-inth exchange could always be sold it a price in the neighbourhood of the fixed par of the rupee. For this purpose it is convenient to have reserves in the e toreign financial centres on which the demand for exchange usually preponderates. For India by far the most important external financial centre is of course London and it is therefore quite natural that the reserve which has to guarantee the external stability of the Indian currency should to a great extent be kept in London. However, it seems natural to keep a part of the Pauls of Indian ought to have some discretion in the choice of the location of the reserve.

Once the purpose of the reserve is made clear it is not necessary to say much about the composition of the reserve. There is obviously no reason for laying up a huge store of metallic gold. Except for the limited amount that would be required in India for selling gold hars at demand, there would be no need for gold in the reserve. The foreign assets which should be at immediate disposal for meeting exchange demands could most conveniently consist of deposits with banks in London and other financial centres. The traditional metallic fund which is never to be touched seems to be a rather senseless idol too costly to be worshipped by a modern people.

The most natural cover for bank notes or silver comes in the circulation is without doubt regular trade bills with short maturity serving as a self liquidating asset. Indian domestic bills of this description should naturally form an essential part of the cover lept against the circulation. Another part of the reverve could conveniently consist of general trade bills in sterling and dollars held in India or abroad. There seems to be no sufficient foundation for the idea that a part of the receive ought necessarily to be invested in Government securities. If these securities are those of the country itself the system molive objoins dangers and should in principle be abrondoned. However a concession to the existing conditions can be made in so far as a strictly limited amount of Indian Government securities may be allowed to form part of the reserve. To the practice of investing part of the reserve in securities of other Governments within the British Empire there are not the same objections provided only short term maturities are selected.

Finally I desire to emphasize the importance of making the Central Bank absolutely independent of the financial interests of the Government. There must be a clear distinction between the functions of the Treasury and the functions of the Banl. The Government should meet its expenses from traces and other sources of real moome or from genuine loans from the public but should have no opportunity of creating fresh means of payment for the purpose. The Government should also in the ordinary way of business buy from the Bank such amounts of sterling exchange as they may require from time to time for payments in London. If it is considered necessary that the Bank should extend credits to the Government there should be a narrow and definite him to such credits.

When the whole circulation is regulated by the Bank and fresh means of payment are only issued as advances of the Bank the circulation will attain its proper elasticity. On the one hand trade s extraordinary need for currency will be situsfied by seasonal exten ions of the Bank's advances and on the other hand be stusfied by seasonal exten ions of the Bank's advances and on the other hand to superfluous currency will be contracted in a natural and smooth way by the a superfluous currency will be currency to for the full of the full conditions a wise bank policy will be repayment of such advances. Under such conditions a wise bank policy will be repayment of such advances to the full continuous and the fiduciary character able to prevent any deprecation of the Indian money and the fiduciary character of the currency will in no way impur the stability of its value

APPENDIX 95

Letter dated 30th April 1926, from Mr J Pierpont Morgan, of New York, to the Secretaries to the Royal Commission on Indian Currency and Finance

I have received your letter of 20th April containing the questionnaire entitled "Proposed questions to be asked the American witnesses by the Chairman of the Royal Commission on Indian Currency and Finance "and Princulars of a scheme for a Gold Currency for India, which has been suggested to the Commission in evidence which I have read with great interest.

I regret that it is not possible for me to be in London before the end of the manner so that I cannot appear in person before the Commission Turthermore as I am not an economist or a strustician but only a practical banker I do not feel that I could attempt to answer all the very interesting and important questions included in the questionnaire but the questionnaire itself and the proposed plan give rise in my mind to very serious question as to the possibility of a successful working out of a plan of this vast proportion and importance without more accurate knowledge of the effort required to produce the final result than would seem to be obtainable even by the best statisticants.

Putting the general matter on one side however and coming to concrete comment I would suggest that the proposal would be generally understood as tending to decrease the value of silver and its buying power one roommodities and, as India as the largest owner of silver already produced and America is the largest producer of silver in the world it would seem that both India and America would look with great concern upon a step which would tend to deprecate the value of silver

I would refer to the fact that after the Franco German War of 1870, when Germany demonstrsed its silver and established a gold currence, there was a long period of world wide liquidation which enhanced the value of gold or, in other words caused a fall of prices everywhere and lowered the value of silver

The foregoing doubts would naturally be present in the minds of well informed people in this country and would therefore have an important bearing on the single question which I feel competent to answer This question is B No 9 which reads as follows—

Would a proposal by the Government of India to obtain such credits in New York for the purpose of carrying out the scheme referred to (for putting gold into corculation in India concurrently with the sale of satery be likely to encounter any such difficulty as would make it undesirable to contemplate that step?

In answering this question I may say that-

(1) as I believe the expectation of the enhanced and accelerated demand for gold in India will have a general deflationary influence and embarrass monetary reconstruction in Europe and

(2) as it is certain that the sales of silver by the Indian Government will have a serious effect on the price of that metal of which America is the largest producer and inversely upon other metals of which silver is a by product and

(3) since it seems do ibiful that the Indian Government can measure with exactness either the total amount of gold which would be needed to carry out this plan or the rapidity with which the gold would be useful, and there would therefore be a corresponding degree of uncertainty as to the amount of credit required in the United States and the rate at which the gold would be withdrawn from that market

it is my definite opinion that the proposal of such credits would encounter such serious opposition in the United States as would certainly make it extremely difficult and probably even impossible to give In himmy assurance that she could float the necessary loans or obtain the nece sary credits in this country

I sincerely hope that the foregoing observations may be of some assistance to the Commission in connection with the important inquiries that it has in hand

APPI NDIX 94

Statement of evidence submitted by Mr Jas S Alexander, Chairman of the National Bank of Commerce in New York

There is presented to me for consideration two documents a project which has been presented to the Commission and a questionnaire prepared by the Commission designe I to bring to light the probable effect of the idoption of the project project as outlined suggests problems of extriordinary complexity Because of this complexity and because of the lack of recessary basic data it is impossible to approximate an accurate estimate of the probable effect of its adoption. It possesses. however some highly important potentialities which may profitably be discussed

The Commission has asked me to answer a series of questions based upon the outline of the project and to aid in the discussion of the questions has made

assumptions as to the volume of gold required to carry out the project

The assumptions give a somewhat more definite basis for discussion but this basis is necessarily hypothetical To answer the questions upon the basis of these assumptions would be to give a eries of answers that might lerve out important

points upon which the effect of the adoption of the project might turn

There is another reason why it is impossible to give satisfictory answers to most of these questions Many of the important questions are so inter related that before a definite answer can be given to any one we must have answered the others example the answer to the question as to American banking attitude would depend upon the probable effect of the project upon both American and European credit conditions which would depend upon international fund movements which would depend partly upon European currency conditions which would depend upon the effect of the Indian demand upon the reserves of Great Britain and continental countries which would depend upon the use which India would make of its reserves in London and upon the other means which India would resort to to obtain additional gold which would depend upon the Indian demand for gold under the new schemeall of which it appears would depend to no small extent upon the indefinite and intangible factor of Indrin psychology operating under a new condition with respect to the use of gold Moreover at every point in this sequence of dependencies there are other uncertain points which might alter the trend of events at any succeeding point

When we consider my of the other important questions such as the co t of the project to India, direct and indirect the effect of the project upon the silver mirket upon the stability of the gold standard upon the gold price level and upon wages standards of living &c , we are confronted with a similar series of sequences at points in each

of which are to be foun I other uncertain and immersurable factors

Notwithstanding the uncertainty as to the result of the adoption of the project, there is clearly inherent in it potentialities of great importance to India and to the rest of the world and it is practicable to point out some of the possible consequences of the adoption of the project

The Commission's quistions all point to six general lines of inquiry -

(1) the effect of the idoption of the project directly upon the stability of the currency of leading nations

(2) the effect of the adoption upon the gold standard throughout the world and upon the value of gold and therefore upon the trend of price levels trend of wages &c

(a) the effect upon the silver market and upon the silver and all ed industries and possible repercussions upon other industries

(4) the effect upon Iudia part cularly—the cost of the project and the reactions of consequent world readjustments upon India

(a) the effect upon credit conditions in the United States and in other leading countries and the attitude of these countries toward loans to India

(6) the advisability of electing the present as the time for entering upon the

In approaching any of these lines of inquiry at at once becomes clear that before a conclusion can be formulated one must have a definite notion as to three main points necessarily involved in the plan namely -(1, the volume of gold which India would absorb under the new scheme,

(2) the sources whence this gold would be drawn

(3) the means taken to acquire this gold

In view of the mal-distribution of gold occasioned by the war and post-war period, and particularly the large gold reserves lying in the Irderal Reserve vaults, we in America have looked with frvour upon developments calculated to assist other nations to return to the gold standard and to bring about a more nearly normal distribution of gold. Having in mind the labits of most countries with respect to gold and the present tendency in many countries to economise in the use of gold, we have felt that the withdrival of gold from the United States, would not occur in such oblines at any one time as to cause serious disturbance in this country. In general our attitude is one of close sympathy with the plans of any nation directed toward the restoration of the gold standard. As soon as we approach the larger aspect of the present Indian project, however, we are confronted with the fact that this project, because of its tremendous potentialies, constitutes i problem entirely different from any of the gold standard problems rused in Furope, or, indeed, in other parts of the world

The first line of inquiry, as indicated above, is the uniount of gold which India would require for carrying out the project and for maintaining it. India has tremendous hourds of gold—clearly an amount in excess of that which would be required in America or Europe to sustain under 7 complete gold standard a volume of business equal to that of India's. If it were possible for India to mobilise the gold now in the country and to utbis it for monetary purposes along lines similar to those of America or European countries, it would not be necessary for India to call upon the outside world for gold in addition to normal requirements. In this event it is conceivable that India could adopt the gold stundard without crusing 7 serious disturbance of the value of gold or of the currency and trade conditions in other countries.

Whether such un accomplishment is at all within the range of possibilities is a question which certainly no one, not having had long intimate contact with Indian life can asswer. Such information as has been given by authorities on Indian currency and by foreigness who have had long experience in India ruises grave doubt as to the possibility of such an accomplishment.

That there is some doubt on this point in the Commission s mind is evidenced by the assumptions in the questionaire that the project would 'involve the absorption by India of about £103 000,000 of gold (in addition to normal requirements for aris, hoards &c'), of which it is assumed that £50,000,000 would be required within a year. Whether the carrying out of the project would require this amount or much less or indeed very much more, and whether the sustaining of the plan once it was initiated would require a much more repid accumulation of gold than that suggested, depends so much more upon the unknown factor of the Indian psychology that it seems that no optimio could be of very great value.

It, however, we assume, as the Commission has requested, that the possible additional absorption of gold could be limited to the amount suggested in the questionnaire, we have a basis for discussion albeit hypothetical. We should bear in mind that from the purely quantitative aspect the importance of such absorption of gold would depend upon the amount of gold still to be required by Europe before the programs for stabilisation now under any could be carried forward to completion. It should be borne in mind that of the 27 countries of Europe, only about one-half are upon any form of gold basis and that among the nations comprising this one-half are everal whose complete programs have not yet been carried out and some whose economic and finuncial condutions are such that in the case of any considerable shock the continued stability of the currency could not assuredly be maintained

Just how much more gold Curopean nations will require when the final stabilisation plans have been completed, it is now impossible to say. The uncertainty existing as to the policy which numerous Luropean nations will find it necessary to follow with respect to the substitution of foreign exchange holdings for gold, together with the impossibility of knowing to what extent Luropean peoples will return to hand to-hand circulation of gold—these uncertainties render it impossible to estimate the probable Luropean demand for gold

Owing to the strength of the American gold reserves, it would be practicable, if carried out gradually, for American part with 500 million dollars of gold, providing the prospective European demand remained within the limitations now in sight

In this connection, however, we should not forget the extraordinary absorption by India during the last three years — Before the war India normally absorbed between 10 and 20 per cent of the world's annual production — Within the last three years she

has absorbed an average of about half of the world's production. It seems improbable that such an absorption of gold as that lecently occurring in India; in the light of the reduced world output of gold as compared with that of the pre way, could have been possible had Lurope'un rutions returned to a normal gold basis without occasioning an extreme shortage of gold and affecting world price levels

If India could restrict her ordinary, absorption of gold to the average proportions before the war, and if Luropean autions through economies in the use of gold could return to the gold standard by the use of a relatively less amount of gold than before the war, then it is conceavable that India, by utilising part of her recent excess importations and perhaps some moderate excess importations in the future, might adopt the gold standard without impeding Europe in iccovery and without disturbing would price levels. This conclusion however rests upon two debatable assumptions namely a restricted use of gold in Europe and second the return of India to ordinary gold requirements for her ordinary purposes. Notwithstanding the explanations which have been given for the recent extraordinary absorption of gold by India it would appear that India a future demand for gold for so called normal purposes must remain innertiam. In summary the answer to one of the most fundamental questions, namely the amount of gold which In his would absorb must be that clearly we cannot know in advance.

From the point of view of the effect of the Indian project upon the stability of Turopean currences and upon the trend of trade and from that of possible repercussions upon India and the United States the factor which is at this time fully as important as the amount of gol to be absorbed by India is the sources from which India would withdraw this gold

If the gold absorption by India could be limited to the amounts suggested in the questionnaire, and if the gold could be withdrawn from Anterica in such a way as not to curril American credit extensions to Europe the transfer might be mide without any considerable disturbance to world currency conditions. However, it is not at all clear just how this could be done. In smuch as there exists no excess reserves in the commercial banking sy tem of America the excess gold all being lodged with the Tederal Reserve system and masmuch as short of a direct gold loan by the Tederal Reserve Banks to India (a project that appears highly improbable) there is no means whereby the gold can be shipped from America without causing a contraction of credit in this country amounting to anywhere from 21 to 10 times the amount of the gold shipped out it is highly unlikely that any considerable amount of gold could be shipped from this country without causing a contraction of American credits to Europe unless the Tederal Reserve system should see fit to place additional credit in the market by buying securities or to establish such rates concerning rediscounts as to render it profitable for American banks to increase their indebtedness to the rederal Reserve system and thus to rely upon additional borrowings from the rederal Reserve system to replenish losses incident to the outflow of gold

It is impossible for an individual braker or a group of brakers to forecast what Federal Reserve policy in this respect might be Inview of the high degree of uncertainty existing in the Indian proposal and the possibilities for unfavourable repercussions upon European and American business and finance it is difficult to see how the Federal Reserve banks could co-operate in the carrying out of this plan the event that the plan were initiated and the stability of European credit conditions threatened, it might be necessary for the Reserve system to support the European initiation. There might however, develop limits to which the Reserve System dould co-operate if the European situation became too serious. If the I-deral system could co-operate if the European situation became too serious. If the I-deral system could co-operate if the European stuation of order credit restrictions incident to outgoing gold then there would occur a contaction of credit restrictions incident to outgoing gold then there would occur a contaction of credit restrictions incident to engold were drawn from New York under these conditions therefore or whether it the gold were drawn from New York under these conditions therefore or whether it would appear to rest principally upon Great Brittin in the first instance and probably to some extent, possibly to a considerable extent upon several continental countries in the second instance.

And this brings me to what appears to my mind to be the most important aspect of this whole project namely the far reaching possibilities of a present drain upon the gold reserves of Europe Mere 10 years of chaos in the currency of imny of the principal countries of the world we are only just now getting back to a

measurable degree of stability. As previously indicated some of the countries which have recently attained stability are still in the convolvement stage and no one can now forecast how much of a new shock could be withstood. Numerous other countries are still struggling with the problem of stability and their ability to attain stability is clearly conditioned upon the maintenance of recently attained stability in other countries.

In Great Britain the favourable brlance of payments has continuously declined in the last several years and while it is probable that Great Britain still has a modest favourable balance of payments the trend of the trude balance raises apprehension as to the future. Germany is still going through a process of ingorous readjustment. In Italy the currieur is not yet stabilised and the recent adverse movement of trude leaves a neasure of uncertainty. The present distressing situation in both Irance considerable progress but the final stability of the currency has not yet been attained in either country. In both Austria and Hungary the outlook appears to be favourable providing no untoward eient occurs which might shake confidence in the general Europeau situation and lend to an attempt of foreign banks to withdraw creditie sciended to these countries. It is agreed in both of these countries that any such attempt might cause serious embrurassment. Several small countries, including Switzerland Hollund Sweden and Iniland appear to be firmly established upon the gold base but it would be difficult to forecast how well even these countries could withstand the reactions from a severe strain placed upon other continental commines.

It is impossible to forecast to what extent a serious drain upon London would result in a drain of English funds from the Continent and thus in a movement on the part of continental countries to prevent the outflow of their reseries. Again the possible repercussion of such a movement upon the credit of Europe in America and upon the trade movements of Europe and of the world cannot be approximated. And this suggests what I conceive to be the most dangerous aspect of seriously considering the adoption of the Indian project at this time namely the high degree of uncertuity which it injects into the whole European situation. It is this element of uncertainty which it may be a supposed to the suppose of the reviving confidence in Europe

The third consideration that goes to the root of some of the questions listed in the questionnaire is the means to be taken to acquire this gold. If we assume that the gold required for the scheme will be in excess of that which would be imported and paid for in the usual way by the favourable annual balance on international account, there appears three theoretical ways that this gold could be secured.—

- (i) By a long from the Federal Reserve brinks
- (2) By a private loan in Great Britain or in the United States
- (3) By utilising present Indian assets including Indian reserves in London and the Indian silver holdings

As already indicated it may be assumed I should think that the Federal Reserve banks could not consider a loan to India for this purpose—certually not at this time and not until the project could be modified in such a way as to give definite assurance of no untoward effects upon business and finance in America and in Europe

Concerning the second suggestion much the sane should be said. American banks could not advance money for a project that threatened to bring dissurbance to American bissness nor could they be expected to recommend such a loan to the American investing public. For somewhat analogous reasons it would seem unlikely that the British or continental banks or investors would at this time seriously consider a loan for this purpose

India would I think, find it necessary to rely upon sources within her own dominis or upon balances she possesses or might accumulate abroad. How far India could embark upon the project by the aid of balances now held abroad it is impossible to say, but if the project proved to be disturbing to world currency and trade conditions the resulting depression in other countries might be so reflected upon Indian trade as to present her accumulation of additional balances abroad with which to purchase the additional gold needed to support the project

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There remains one important means namely, the sale of a large part of Indias silver holdings in the world's markets. It is suggested by the memorandum that such sile as is proposed might cause the decline of silver to 24d. There are so many fictors of uncertainty in the project that it would appear that any estimate as to the level that the price of silver vould re ch before it could be stabilised must at this time or until the project was well under way necessarily be little more than pure guess When one considers the place which India occupies in the world consumption of silver-in recent years she has taken about one-third of the world's annual production-he cannot resist the conclusion that the closing of the Indian mariet would bring a collapse in the world's silver market and the downward plunge of the price of silver When one adds to this the prospect of India's dumping upon the world annually for a period of 10 years an additional amount of silver equal to about one-third of the world s total unual production the prospect for price demoralisation becomes immensurably increased. It is of course true that any sudden decline in the price of silver would restrict silver production and this restriction would in time bring the decline of the price to a half. In this connection, however it should be borne in mind that an important part of the silver production in America results as a by product from the mining of copper and lead and that notwithstanding the decline of the price of silver the continued production of a certain amount of silver in those industries even at a loss must continue. No one can determine in advance the point at which the decline in the price of silver could be stopped

While as I have said I believe any estimate must be of little or no value because of the many unknown factors my judgment is that the price of silver would decline for below 21d. It would appear to be well within the range of possibility that the price might fall as low as 15d and even lower.

This all presupposes of course that the Indian Government would continue to sell silver until it had disposed of the amount suggested in the project. As a matter of fact the rapid decline of the value of silver would in my judgment bring about such a loss in the value of the Indian silver holdings including hoards as greatly to ampede the carrying out of the project.

It would now be possible to go into some detail regarding the six main propositions into which the questions as et by the Commission resolve themselves and which are set forth on page I fittink however that the answer which can be made to these questions has been fairly well indicated in the preceding discussion. The outstanding point appears to be the high degree of uncertainty that would arise from the adoption of the project—particularly at this time

No one of course can question that Indra has clearly as much right to adopt the gold standard as any other country. However no nation should consider a serious readjustment of the currences in other countries. This is particularly true with respect to the grold standard which affects so many nations—in fact the present and future of the entire world. Any step which would endanger the stability of other countries must necessarily lessen the value of the gold standard and ultimately rect countries must necessarily lessen the value of the gold standard and ultimately rect upon India. My conclusions are therefore that India in worling toward the gold standard should adjust her plans in such a way as not ultimately to disturb the gold price level and that the time selected for the adoption of the gold standard should be when the currencies of other important countries formerly upon the gold standard ire more firmly established upon the old basis. The present time is clearly inopportune, and I believe that if an attempt were made to carry out the project in its present form at this time the direct and indirect losses which would accrue to India would outweigh any possible gains.

APPENDIX 95

Documents circulated to Witnesses in the United Kingdom and the United States of America.

Α

Copy of a Memorandum circulated to Witnesses in India

The following memorandum, indicating the mina questions which will come under the consideration of the Royal Commission on Indian Currency and Linance under its terms of reference, is published in order to assist intending witnesses in the preparation of their evidence. It is not to be regarded as exhaustive, nor is it desired that each witness should necessarily attempt to deal with all the questions raised—

(1) Is the time ripe for a solution of the problems of Indian Currency and Exchange by measures for stabilisation of the rupee or otherwise?

What is the comparative importance of stability in internal prices and in foreign

exchanges?
What are the effects of a rising and a falling rupee, and of a stable high or low

rupee on trade and industry (including agriculture) and on initional finance?

(2) In relation to what standard and at what rute should the rupee be stabilised,

of at all?

When should any decision as to stabilisation take effect?

(3) If the rate selected differs materially from the present rate, how should the transition be achieved?

(4) What measures should be adopted to maintain the rupes at the rate selected? Should the Gold Fechange Standard system in force before the war be continued, and with what modifications if any?

What should be the composition, size, location, and employment of a Gold Standard

Reserve?

(5) Who should be charged with the control of the note issue, and on what principles? Should control or management be trunsferred to the Imperral Brak of India, and, if so, what should be the general terms of the transfer?

What provisions should be made as to the backing of the note issue?

What should be the facilities for the encushment of notes?

What should be the policy as to the issue of notes of small values?

(6) What should be the policy as to the minting of gold in India and the u-e of gold as currence?

Should the obligation be undertiken to give gold for rapees?

(7) By what method should the remittance operations of the Government of India be conducted?

Should they be managed by the Imperial Bunk?

(8) Are any, and, if so, what measures desirable to secure greater elasticity in meeting seasonal demands for currency?

Should any, and, if so, what, conditions be prescribed with regard to the issue of currency against hundis?

(9) Should any change be made in existing methods for the purchase of silver?

Note—The above questions were circulated to witnesses in India. As the result of the oral and written evidence received in India, the relative emphrisis to be laid on the various matters dealt with his become cleruer, and accordingly the attached memorandum and supplementary list of "Questions to be asked by the Churman" livre been prepared for the information of witnesses.

в.

Memorandum entitled "A proposed Scheme for a Gold Standard for India."

The following outlines of a gold standard system, on the assumption that the munigement of the paper currency and the conduct of the remittance operations of Government are transferred to the Imperial Bank of India, have been brought to the notice of the Commission. It is considered that it will assist the examination of witnesses if they are in possession of these outlines, and this memorandum is accordingly communicated for the personal information of witnesses. It should be understood that its contents are strictly confidential, and that its proposals do not in any way emanate from the Commission.

Details of the Scheme

2 The details of the scheme after its complete introduction are as follows -

(a) Gold coin and bruk notes to be unlimited legal tender and silver rupees up to only (b) Government to be under statutory obligation to give gold coin in exchange

for gold bullion at any time on payment of a seignorage to cover minting charges

(c) The Imperral Bank to be under a statutors obligation to buy gold in the same way as the Bank of Ingland and at a price fixed on a similar basis

(d) Bank notes to be payable on demand in gold com

(e) The constitution of the new reserve to be as follows -

(1) Gold holdings ordinarily to be not less than 30 per cent of gross circulation, but may be reduced to 20 per cent, on payment by Bank of a tax of 6 per cent on amount by which invested portion exceeds 70 per cent

(11) At least 20 per cent of invested portion to be gold securities or trade bills drawn in India in sterling and having a currency of not more than three

(iii) Remaining investments to be Government of India securities up to a maximum of 90 crores and internal trade bills or other self liquidating

(f) The Bank to undertake to I cep the Secretary of State supplied with funds to meet the sterling charges of Government

Difficulties in immediate Introduction of full Gold Standard

3 The rupee cannot be limited as legal tender as proposed above unless an opportunity be first given of converting the rupee holdings into gold. The magnitude of this liability is indeterminate because it is not possible to estimate with accuracy the amount of rapees outstanding and the portion thereof which would be presented Based on the best possible method of calculating these amounts, it has been suggested that the maximum number of rupees outstanding is about 500 crores of which at the average rate of 5 per head of population about 100 crores will be required for circulation if the rupee became limited legal tender. Of the balance of 200 crores 90 cro es are in the Government's currency reserve, and the balance will be presented for conversion into gold. It would not be possible to provide for the immediate conversion of these 200 crores and it is therefore necessary to proceed by stages

Introduction of Gold Standard by Stages

4 The following stages have accordingly been suggested for the gradual introduction of the scheme -

(1) A statutory obligation should be imposed on Government to sell to any person who makes a demand in that behalf at the Bombay Vint and pays the purchase price in any legal tender gold bullion at a price equivalent to the par of exchange but only in the form of bars containing a fixed minimum weight of fine gold (say 400 ozs troy) A statutory obligation should also be imposed on Government to give in exchange for gold bullion, notes or silver at a price equivalent to the par of exchange less a small seignorage charge

(11) A gold com should be put into circulation and offered as freely as resources permit in exchange for notes and wher rupees at currency offices treasures and branches of the Imperial Bank of India without any definite obligation to give gold

coin for notes or silver rupees being imposed (iii) After a period fixed by statute (say, five years) the hability to give gold coin in exchange for notes or rupees, and also for gold bullion on payment of a seignorage

(n) After a further period fixed by statute (say five years) the silver rupee should should be imposed.

be made leg d tender for sums up to a small fixed amount only (say, Rs 50)

Sale of Silver

o The amount of fine silver in 200 crores of ripees is about 687 million fine ounces and is nearly three times the world's annual production. It would be ounces and is nearly lines times as sufficiently long period not only with the object neces ary to spread the sales over a sufficiently long period not only with the object of obtuning a good price for the rupees sold but also with a view to diminishing the disturbance in countries with a silver currency and the adverse effects on the world's silver mining industry. It is assumed that the siles may be evenly spread over a period of 10 years the period suggested for the intro luction of the full gold standard This would result in in annual sale of about Rs 20 erores' worth of silver which is approximately equal to the average net import of silver into India in recent years The average price obtained by the sales may be expected to be not less than 24d per standard ounce (against the present price of over 30d) ie half the exchange value of the rupee would be realised. The resultant deficience will be met in respect of the public holding of rupes by the appropriation of the Gold Standard Reserve and in respect of the currency holding by the creation of Government of India book debt

Total Demand for Gold

6 The gold ultimately required for the reserve on the basis of a note circulation of 189 5 crores amounts to 56 9 crores, against which there is at present a gold holding of 29 7 crores in the reserve. The total gold required for introducing the scheme in all its stages will thus amount to 27 2 crores for the reserve plus the gold required for converting the 110 crores to be tendered by the publi , i.e. a total of 137 2 crores, or £103 millions

Distribution of the Demand for Gold by Stages

7 On the introduction of Stage I in para 4 above the extra demand for gold would trise only from substitution of gold for rupees already in hoards. Comparatively few hoards would be large enough to buy the minimum quantity sold by the currency authority and the heards would not be brought out suddenly The bullion merchants would probably lay in stocks in anticipation of demand and the aggregate amount of the firs' demand from bullion merchants and presenters of the larger hourds would be about Rs 50 crores worth of gold. As the reserves would have at the inception of the scheme a gold holding of about Rs 30 crores at would be necessary to provide another £15 millions of gold at the outset to meet the first demand on the introduction of Stage I The period that would elapse between Stages I and II would depend on the progress of conversion of the hoards, and Stage II would be entered on as soon as the gold reserves had accumulated to an extent sufficient to enable a gold com to be put into circulation and to enable the supply of such coin to be kept up continuously. During this period the demand for gold may be greater than the supply obtained by the sale of silver and it might become necessary to supplement the supply by external lorrowing It seems unlikely that the amount of external borrowing will exceed R. 30 crores or will be required for a longer period than five years

Assuming gold currency had been made freely available during Stage II, Stage III would not lead to any great increase in the demand for gold coin The introduction of Stage IV would probably bring in a few more rupees from hoards but the additional demand would probably not be very large as the greater part of the hoards of rupees would have been replaced by gold during the earlier stages

It is unnecessary to attempt to estimate piecisely the amount of gold required at each stage. For all practical purposes it may be assumed from what has been mentioned above that about £10 millions would be required at the time of initiation of Stage I a further £35 millions within a year and the remaining £53 millions over a period of 10 years

Cost of the Scheme

- 8 The cost of the scheme finally would represent the difference between the interest on the investments in the reserve as finally constituted and the interest now received, this is estimated at 1 crore. The interest on the Government of India securities now in the reserve and the interest on the eventual holding of such securities do not enter into the question of the cost to the Government on account of the change During the transition period there would be a further charge on account of the curring on of metallic stocks owing to the gradual conversion of surplus silver into gold or gold securities, and the interest on external credits which would probably have to be obtained while the gold reserves were being built up It is estimated that the charge during the transit onal period would amount during the first five years to about 17 crores a year
- 9 The chief points for consideration in connection with this scheme are (i) the extra cost involved, (ii) the pos ibility of getting the gold required and the effect of

its withdrawal for the purpose of Indian requirements, particularly the effect upon world gold prices, (iii) the effect of the scheme on the silver market and the possibility of realising a reasonable price for the surplus of silver, and (iv) the effect on the monetary situation of any miscalculation under any of the headings mentioned in the preceding parigraphs

Note -I or the puriose of the calculations in this memorandum it has been assumed that the rate of exchange at which the rupeo is stabilise i is Is 6d

Supplementary list of "Questions to be asked the Americano Witnesses by the

Attention is directed to the plan for the establishment in India of the gold standard with gold coins as an internal medium of exchange, for the reduction of the status of the silver rupee to that of a token of limited legal tender and for the sale of silver, set out in the accompanying confilential Memorandum entitled Proposed. scheme for a gold standard for India

1 - 1s to the proposals relating to Gold-

1 Assuming that these proposals involve the absorption by India of about \$103 000 000 (Sa00 600 000) of gold (in addition to normal requirements for the arts. hoards &c) of which it is assumed £15 millions would be required at the outset an additional £30 millions within a year and the remainder within 10 years

What would be the effect of these proposals-

(a) on the supplies of credit and rates of interest in America?

(1) on the rosition and policy of the Lederal Reserve Board? (c) on the position and policy of the Central Banks-

(1) of those of the European countries which have put the gold or gold. exchange standard into operation?

(2) of those which are aiming at doing so?

(d) generally on the maintenance and restoration of the gold standard in I uropean countries?

- (e) on world gold ; rices? (f) on the cost of living and on wages in America Europe and India?
- 2 If Furopean countries and countries overseas whose financial systems are clo ch tied to European countries should, as a measure of protection of their gold reserves curtail the supply of credit what effect would this have upon America financially and economically?
- 3 What would be the reaction on India of the consequences which you describe in reply to questions 1 and 2?
- 4 Assuming that the absorption by India of the £103 000 000 sterling of additional gold is not sprend over a period of 10 years but takes place more What difference would this circumstance make to the consequences which you rapidly

have described in reply to questions above?

5 Cm tou express my opinion whether under the scheme in question the absorption of the additional £103 000 000 sterling of gold could in fact be spread over the period of 10 years as proposed or whether it might not have to be supplied more rapidly?

6 Assuming that the amount of £103 000,000 sterling of additional gold required for India might be substantially increased by the withdrawal of more gold into active

circulation than is allowed for in the estimates of the scheme

What difference would this circumstance make to the consequences which you have described in reply to questions 1 and 2 above?

Can you express any opinion as to the desirability of the proposals of the to the proposals of the scheme relating to gold in relation to the interests of India and particularly in view of the cost to India of providing a gold currency by the means propose 1?

A sum lar set of quest ons n taten t de was c reulated to witnesses in the United Kingdom

- 8 Can you assist the Commission with any evidence as to the probable future relation between the world's demand for gold and its supply, assuming that Indian conditions remain unchanged?
- of 9 In particular, can you give an estimate of the annual accrement to the stock of gold for mometary purposes which is needed to keep pace with the economic progress of leight but but America, and (b) the rest of the world?
- 10 In how many years will the stock of gold for monetary purposes now held by the United States of America, and at present regarded as redundant, be absorbed in this manner?

B-1s to the proposals of the scheme relating to Silver -

- 1 Can you assist the Commission with any evidence as to the probable future relation between the world's demand for silver and its supply, assuming Indian conditions to remain unchanged?
- 2 Assuming the proposals referred to involve the sale over a period of 10 years of an amount of silver equal to about three times the present annual world's production —

(a) What would be their effect on the silver market?

- (b) What effect would the proposals have on the markets in copper and other base metals?
- (c) What effect would a fall in the price of silver have on the volume of its production?
- production?

 (d) If a fall has the effect of curtuling production, would it be reasonable to suppose that a fall in the price of silver to 24d would so contract production as to stabilise the price of silver at about that level, and permit of the
- absorption of, say, 20 crores of rupees annually?

 3 In what respects would American interests be affected by the silver sales in question?
- 4 Having regard to the desirability of the co-operation of the United States in the currying through of the plan, how, in your opinion, would it be viewed by the Government and the Financial Authorities of the United States of America.
- 5 What difference would the imposition of a duty on the importation of silver into India make to the con-equences which you describe in reply to questions I, 2 and 3 above.
- 6 The average annual importation of silver into India for use in the arts, as offine ozs
- Assuming that the effect of the proposals under consideration, with or without the imposition of an import duty, would be substantially to reduce the importation of silver into India for these purposes.

What difference would that circumstance make to the consequences which you have described in reply to questions 1, 2, and 3 above?

- 7 Can you express any opinion as to the desirability of the proposals of the scheme relating to silver in relation to the interests of India and in particular the circumstance that silver is a favourite store of values amongst the poorer classes there?
- 8 Assuming the Government of India requires to ruse credits in order to bridge the period between the introduction of a gold currency and the realisation of the silver which it would replace which credits might amount to \$150 million in New York and £23 million in London

What considerations, arising either from the nature of the scheme or from external circumstances would militate for and against a proposal by the Government of India to obtain such reedits in New York?

- 9 Would a proposal by the Government of India to obtain such credits in New York for the purpose of carrying out the scheme referred to (for putting gold into circulation in India concurrently with the sale of silver) he likely to encounter any such difficulties as would make it undesirable to contemplate that step?
- 10 Assuming that the credit of \$150 million would not be required for a longer period than five years, what would be the cost to India of embarking on such a credit scheme.
 - (1) if the credit is not required to be actually drawn on ,

(2) if the credit is only partially drawn on?

11 It has been suggested that the conversion of silver hoards into gold and the introduction of a gold currency will ultimately lead to a reduction of India s demand for gold for non-currency purposes If this were assumed to be the case would any modification be necessary in your replies to previous questions?

12 It is relevant to the inquiry of the Commission to consider whether the times are ripe for a stabilisation of the rupee at a fixed rate in relation to gold or sterling

Do you consider that there is any factor in the financial situation in the United States of America which would make it prudent to postpone any such measure for stabilisation?

13 In regard to the rate at which the rupce should be stabilised it has been suggested that a rate lower than the existing rate will reduce the total demand for gold in connection with the introduction of a gold standard in India What weight if any, should in your opinion be attached to this suggestion?

14 In regard to the remittance operations of the Government of India a question has arisen whether they should be conducted as hitherto by the time honoured system of sales of Council Bills in London or by means of purchase of sterling bills from Crehange Banks and firms in India as has been done since 1923 It has been suggested in favour of the older system that it gives greater facilities to the people of the United States of America for payment of their jute and other contracts made with India what importance do you attach to this?

APPENDIX 96

Note on the Effect of Exchange on Government Revenue and Expenditure, submitted by Mr A C McWatters, CIE, ICS, Secretary to the Government of India, Finance Department

1-The gain in exchange to Governi ent in the year 1918-9 as compared with the pre was rate of 1s 4d

In 1918-9 all expenditure in England was treated as Imperial

The gain or loss by exchange in the accounts at that time was calculated with reference to the average rate of exchange obtained by the Secretary of State on Council Bills This rate in the year 1918-9 was 1s old The total sterling net expenditure was as follows -

23 629 405 Revenue-Expenditure in England 3 228 996 Receipts in Lingland - 20 400 439

Net expenditure Capital-1 559 895

Capital expenditure The gain in exchange to Central Revenues at 1s 51d compared with 1s 4d on the above figures would be Rs 2 63 16 630 in respect of Resenue and Rs 20 12 265

in respect of Capital II — The extra return which would accouse from customs import duties if exchange were fixed at 1s 4d as compared with 1s 6d and if the following two assumptions are made (1) that the volume of imports is not diminished and (2) that the price of imported gools rises by the full amount of 121 per cent

Over the period April to August 19°0 it has been calculated that 57 per cent of the import duty realised was from articles paying duty on an ad talorem basis (including those articles for which tariff values are fixed)

The remunder paid duty

The total customs duty on imports according to the at specific rates Inkhs 37 69 Budget of 1925-6 is 85 Deduct Government stores 36 51 Balance 21 00 57 per cent of above = 2 62 Increase at 121 per cent =

APPENDIX 97

Despatch from His Majesty's Secretary of State for India, No. 51, Financial, dated the 24th April 1914.

In m₃ telegram dated 6th March 1914 I informed you that I should address you by Despitch on the subject of the Report of the Royal Commission on Indian Finance and Currency

The Report falls naturally into three divisions, containing respectively -

A review and criticism of the system of Indian Finance and Currency and its administration in recent years

Recommendations on certain matters, such as the detailed arrangements for leuding part of the India Office balance, the relations of the India Office with the Bank of England and the financial organisation and procedure of the India Office, on which it is scarcely necessary for me to invite Your Excellency's observations

Conclusions and recommendations regarding many subjects which must be considered in consultation by the Secretary of State in Council and the

Government of India

- 2 On the first head I have little to say A close examination of the narrative portions of the Report might suggest the amplification or qualification of an occasional passage, or a more exhaustive statement of facts, and something might also be urged in reply on the few points where the judgment expressed on the action of financial authorities here or in India deputs from the general note of approval which distinguishes the Report But it is neither necessary nor desirable to undertake this task I welcome the Report as the first authoritative survey of the Indian fin incial and currency system as a whole that has been made since the Indian Currency Committee of 1898, and as a weighty pronouncement on the policy and the measures that have gradually been evolved in the course of giving effect to that Committee's recommendations It is gratifying to me as I am sure it will be to Your Excellency's Government to learn that both the policy and the measures have in essentials received the approval of the Commission I note the generous testimony borne to "the ability and skill with which the complicated duties in connection with Indian finance have been discharged by the permanent officials to whom they have been entrusted both in India and in London" (para 7), and to the fact that ' the final success achieved by the Indian authorities both in India and in this country must be recognised as a proof of the soundness of the currency scheme itself and of the measures ultimately taken for meeting the crisis' of 1907-8, the chief occasion on which the existing currency system has been put to a severe test (para 49) As regards the few instances in which, in the Commission's opinion, other action than that taken might have been advisable, it is sufficient to bear their comments in mind and to endeavour to benefit on a future occasion by the guidance they may afford
- 3 The recommendations regarding organisation and detailed procedure in this country are being circlelly considered.

 4 The main conclusions and recommendations requiring consultation between

4 The main conclusions and recommendations requiring consultation between this Office and the Government of India are as follows —

(a) In para 68 the conclusion is reached that "it would not be to India's advantage to encourage an increased use of gold in the internal circulation." Read in connection with the opinion expressed in para 74 that "it is important that the Government should continue to act on the principle of giving the people the form of currency for which they as! "this appears to be equivalent to a recommendation in favour, first, of the continuance, without modification in the direction either of stimulation or of restriction, of the present practice regarding the sile of Council Bills which, as explained on behalf of this Office, is to regulate them so that they "shall not be on such a scale as to prevent the inflow of gold to India to the event to which it seems likely that there will be a demand for it on the part of the public "(Appendix I, page 12), and, secondly (subject to the qualification in prin 116), of the principle of issuing gold freely in normal times from the Paper Currency Department in exchange for rupees and notes for circulation in India.

This endorsement of existing practice appears to call for no comment

APPENDIA 97 619

(b) In para 73 the Royal Commission say, after pointing out their own imbility to recommend on its merits the establishment of a gold mint in India that if Indian sentiment genuinely demands it and the Government of India are prepared to incur the expense there is in our opinion, no objection in principle, either from the Indian or Imperial standpoint, provided always that the coin to be minted is the sovereign (or the half sovereign) and it is

pre eminently a question in which Indian sentiment should prevail The difficulty of ascertaining whether Indian sentiment desires the establishment of a mint for the comage of sovereigns or half sovereigns is considerable When a resolution on the subject of a gold mint was rused in your Legislative Council on 22nd March 1912 the mover expressed his preference for a ten rupee piece, but the resolution was withdrawn so that no definite opinion was recorded. When in my telegram of 16th Way 1912 I suggested that the views of Local Governments Chambers of Commerce, and Presidency Bulls regarding a gold mint should be ascertained the Government of Indra gave reasons for not acting on the suggestion, and it was accordingly not pursued at that time In present circumstances it is clearly desirable to proceed with an enquiry as to the existence or otherwise of a genuine Indian sentiment in favour of a gold mint the point which the Royal Commission leave in doubt I shall be glad if you will take the necessary steps You will doubtless draw the attention of the bodies that you consult to the opinion expressed by the Royal Commission regarding the merits of the scheme and to the information that is available regarding the establishment that would be required and the probable cost (See Appendices to Interim Report of the Commissioners, Vol I page 215)

(c) Failing the establishment of a gold mint the Commission recommend a renewed notification of the willingness of the Government of India to receive gold bullion at the Bombay mint I do not anticipate that you will have any objection to this, and, if this is so it is perhaps unnecessary to postpone the issue of the notification until the question of establishing a Gold Vint has been decided since the establishment of a Gold Mint would require little if my modification in any arrangements previously introduced

for the receipt of gold bullion

(d) In pure 89 the Commission while holding that the Government of India ought to be alive to the possibility of the aggregate sterling reserves eventually reaching an unnecessarily high figure, recommend that the whole profits of the silver comage together with any interest accruing from mnestments or loans made from the Gold Standard Reserve, should for the present continue to be placed to the credit of that Reserve, and that no diversion similar to that made in 1907 for rulway development should be under any circumstances permitted until further experience allows of a much more accurate definition of the calls which the Reserve may have to meet than is at present possible

I am prepared to act on this recommendation and Your Excellency will doubtless be in favour of this course. The importance of the Commission's remarks regarding the possibility of an increase of the sterling reserves to an unnecessarily high figure must not be disregarded, since such disregard would involve the danger that the full benefit would not be obtained of the economy of the Indian currency system-which is one of its advantages But it would be useless to attempt to forecast now the time and circumstances in which any action in the sense indicated in these remarks is likely to be

destrable

(e) In para 90 the Commission recommend without hesitation that the whole of the Gold Standard Reserve should be kept in London observations from Your Excellency I am ready to accept this recommendation

(f) Paras 96 to 100 contain recommendations regarding the composition of the Gold Standard Reserve, viz — That not less than one-half should be held in gold when the total exceeds £30 000,000, and that the minimum amount to be so held should be raised as soon as possible to £15 000 000, of which £4 000 000 should be provided by the abolition of the Indian branch of the Gold Standard Reserve and the consequent transfer of sovereigns from the Piper Currency Re erve in India to the Gold Standard Reserve for location in London as soon as convenient, £1 000 000 should be obtained from the same source in exchange for sceurities now held in the Gold Stanlard

Reserve and the remainder should be accumulated as opportunity offers for the revision of existing investments as well as by the addition of new mones

You will doubtless be in favour of increasing the amount of gold held in the Gold Standard Reserve and I shall be glad to learn whether the standard proposed by the Royal Commission appears to you to be suitable also be glad of your remarks as to the method proposed for attaining the

standard

The trunsfer of £1000000 in gold from the Paper Currency Reserve against the rupees now in the Indian Branch of the Gold Standard Reserve would present no difficulty in itself but it would be advantageous that as the abolition of that branch would diminish the elisticity of the currency system it should be necompanied by the introduction of the new element of elasticity proposed in part 111 This would require the amendment of the Paper Currency Act

Similarly the proposed transfer of \$1,000,000 from the Paper Currents Reserve in exchange for securities would require legislation in connection with which you may desire to consider the comparative theintages of making the addition to the invest d portion of the Paper Currency Reserve entirely (as suggested by the Commission) in the f rm of sterling securities or turtly in that form and purtly in ruper paper. If the latter course were adopted a corresponding portion of the amount to b alled in gold to the Gold Standard Reserve would be obtained by the realisation of sterling securities now held in that Reserve and the ear marking of the proceeds ın gold

The provision of the further sum required to ruse the total of gol i in the Gold Standar I Reserve to ±15 000 000 will if that standard is a looted, be

proceeded with as favourable opportunity offers

(a) In part 101 the Commission in accordance with their view (stated in para 52) as to the importance of formulating in advance and giving publicity to the policy which it is intended to pursue in a crisis, advise that the Government should make a public notification of their intention to sell bills in India on London at the rate of 1s 323d whenever they are asked to do so (as was actually done in 1905 and confirmed in 1909), to the full extent of their resources. I shall be glad to learn whether you are in favour of such a notification and, if so when in your opinion, it should be

(h) The main recommendations regarding the Paper Currency system contained

in paras 110 to 115 are as follows -

(a) That the Paper Currence Act should be amended so as (1) to increase the permissible maximum of the fiduciary portion of the Reserve up to the equivalent of the notes held from time to time in the Reserve Treasuries plus one-third of the notes outstanding chewhere, (2) to increase the amount that may be held in sterling securities (3) to enable part of the fiduciary portion to be represented by loans granted in India or London

(n) That the securities in the fiduciary portion of the Reserve should then be at once increased by the addition of six crores of sterling securities, to be transferred from the Gold Standard Reserve as shown in

(f) above

(c) That the 500 rupce note should be universalised and that in accordance with the Commiss on a views expressed in para 70 as to the importance of encouraging the use of notes additional facilities should be granted for their encishment

(a) That gold in the Paper Currency Reserve in India should in ordinary creumstances continue to be used as at present but that when an exchange creas declares itself it should be given out only on such conditions as will secure its immediate export

(c) That for the present a portion of the Reserve should continue to be held in London in gold, but that such portion should ordinarily be limited

to £5 000 000

Some of these propo als are far reaching and will require careful consideration. The case for an increase in the permissible maximum of

the fiduciary portion of the Reserve and for enabling a part to be represented on occasion by loans appears to me to be strong The questions whether the maximum shall be fixed and the addition to the permanent securities

effected in the manner proposed are more difficult

With regard to the first question it is to be remembered that if the plan proposed by the Commission is adopted any encashment of notes or withdrawal of notes from the Reserve Treasuries at a time at which the non metallic port on of the Re erve is at the maximum amount permissible will require a simultaneous diminution of that portion and adjustment of the amount of the metallic portion The inconvenience in olved in this plan and indeed in any plan under which the invested part of a Paper Currency Reserve is limited to a percentage of the circulation instead of to a fixed sum must not be overlooked and it is to be remembered that such inconvenience is peculiarly great when the Reserve is scattered over a wide area

The second question has already been referred to under (f) above

I shall await with interest your observations on all the recommendations under this head

- (t) In para 123 attention is called to the importance of reviewing periodically the balances held by the Government of India so as to secure all possible The subject is one which necessarily comes before your notice at frequent intervals and with regard to which it may be assumed that your practice at any given time represents the result of the most recent experience. The present moment is scarcely favourable to any formal examination and report on the subject partly because this would involve a postponement of the time at which your examination of the other recom mendations of the Royal Commission can be completed and partly because the recent increase in the limits on savings bank deposits introduces a new factor that will require to be carefully witched But you will doubtless bear the subject in mind and in due course make any modifications or submit to me any proposals that may seem to you to be desirable
- (1) I anticipate that you will similarly desire to postpone for a time the consideration of the advantages and disadvantages of a change in the date of commencement of the financial year to which the Commission refer in para 128
- (L) In paras 134 to 169 the advisability of granting loans in India from the Government balances in addition to such as would be granted under the recommendations summarised in (h) above is discussed. The recommendations for the recommendation of the re tions are that such loans should be made to Presidency Banks against security that they should be for short periods that they should not be security that they should be for short periods that they should not be confined to periods of stringency that the rate of interest should be fixed by negotiation in each case and that the amount should be breed on experience gained by cautious and tentative action Mr telegram of experience for the property of the pro (Financial), approved provisionally a policy similar to that now recommended except that it confined loans (in accordance with your suggestion) to periods when the Bank rate reached or was about to reach a high figure such as 7 or 8 per cent and fixed the rate of interest at 1 per cent below Bank rate lour experience of the offer made in accordance with my telegram will help you towards forming an opinion on the policy generally and in particular on the comparative advantages of the method then adopted and the method now recommended for determining the time at which and the terms on which loans should be granted

(i) In para 107 attention is drawn to the possibility that the amount of rupee loans issued by your Government may with advantage be increased. This had already been the subject of considerable correspondence between the Government of Ind a and the Secretary of State in Council in consequence of which the amount of the rupee loan announced in your Budget for 1914 5

was fixed at five crores

(m) I understand that you have under consideration the possibility of increasing the popularity of the forms of security 1 sied by the Government of India to which attention is drawn in para 169

(n) In parts 170 to 186 approval is expressed of the course that has been and is followed in regard to the sale of Council Bills Various suggestions that have been placed before the Commission for modification of existing practiceare rejected. In some passages a distinction is driven between two views as to the limit that should govern the amount of sales the one that the trade demand for remittances should be met sul ject to not preventing an inflow of gold to India to meet the demand of the public for gold the other, that the requirements immediate and prospective of the Secretary of State in Council in London should be the only factor to be considered. Certain points regarding the relation between these views, the po sibility of conflict between their practical consequences and the course to be taken in such an event are discussed in the enclosed note

(o) In part 222 it is recommended that a small expert to by he appointed with instructions either to pronounce definitely against the establishment of a State or Central Bank in India at the present time or to submit a concrete scheme for its establishment. I see no reason why effect should not be given to this recommendation. If you agree I shall be glad to receive

detailed proposals from you

5 The summary given above is not exhaustive. It is intended to assist you in the consideration of the Report by indicating the points to bluck it seems to me that discussion between the Covernment of India and myself should first be directed and the provisional conclusions which subject to voir remarks I am inclined to adopt on certain of them. Owing to the number and complexity of the issues raised and the pre sure of other work in your Finance Department some time may clapse I clore you are able to furnish me with a full statement of your views and you may wish to deal with the questions in small groups or one by one I am autious to meet your convenience in this respect and am centent to leave to you the choice of the order in which the discus ion of the virious subjects shall be taken up

ENCLOSURE

Note referred to in nara 4 (n)

In parts 177 to 186 and incidentally in other passage the Loyal Commission consider what are the limits of amount within which Council Drafes should be sold To discern clearly how far the Commission agree with the practice that has been followed in the past what is their attitude towards suggestions for modification that have been placed before them and what they recommend for the future is of much importance because as stated in para 170 in language of which the appropriateness will be recognised by all who have close practical acquaintance with Indian finance, the sales of Council Drafts are the central feature of the machinery by which the the sales of council Druis are the central reature of the machinery by where the Indian finonce and current's system is at present managed '(pira 170). The Commissioners themselves have not attempted to by down any brief rule that can be mechanically followed and it does not seem possible to summarize their conclusions in any such form. To obtain from them practical guidance it appears necessary to collect their observations on that was put before them as to existing practice and on the possible modifications in detail or in principle that they considered and to see what are the results to which such observations point -

(a) Then summary of recent practice as explained to them in evidence is (para 178) that it has been to sell as long as there was a demand [within the recognised limits of price] and as long as it could be met from the It might have been added that as resources of the Government in India was stated in evidence (see Appendix I page 12) and demonstrated or statistics (ibid pages 21 and S1) this practice has been followed subject to the consideration that the sales shall not be on such a scale as to prevent the inflow of gold to India to the extent to which it seems likely that there will be a demand for it on the part of the public might also have been added that as mentioned in paras, 33 and 174 of the Report, bills are sold without limit at Is 41d per rupee

(b) The possible modifications considered by them were (para 179) Secretary of State should never sell more than the amount of his home charges or that he should restrict his sales to the amount entered in the Endings of timates or again that he should adjust the sales in such manner as to Leep his home balance from rising much above the working figure

of £4 000 000

As regards the results that have followed from the practice described in (a) and the value of the suggestions mentioned in (b) the finding of the Commission is definite

(a) In para 133 they say that they find no fault with the course taken by Government in recent years though they mention that if the recommendations which they make as regards loans in India are approved. the occasions though not the extent, of the transfer of money from India to London may have to be revised

Similarly in part 179 they emphasise the fact that while in consequence of recurring surpluses over budget estimates the London bilince his been abnormally high for the last few years no money has been brought home by the sale of Council drafts which has not been used or will not be used for Indian Government requirements in the United Kingdom

same view is repeated in para 186

(b) In para 179 they state that they are opposed to the suggested limitations on the amount of sales They refer more than once to the important undertaking given by the Secretary of State in Council in 1904 that Bills will be sold without limit of amount at 1s 41d per rupee and do not indicate that they contemplate any alteration

Thus the procedure actually followed has led to results which the Commissioners think suitable and the alternative procedures considered by them, which would have led to different results are rejected But emphasis is laid (paras 179 180) and 186) on the view that the only real | istification for the sale of drafts is to be found in the desir-bility of meeting the Secretary of State's requirements immediate and prospective in the wide sense in which (para 186) these words are understood by the Commissioners and not in the desirability of meeting the convenience of trade From para 136 it would appear that what is said on this point is intended rather to suggest an amendment of the explanations given to the public than a change of practice an interpretation borne out by what is said about the results of past practice

But it is not superflious to consider the questions (1) how far it is probable that a rule that Council Drafts should be sold to meet the demands of trade subject to not impeding the flow of gold to India to the amount required in India for absorption not impeding the new of goat to initial to the amount required in India for absorption by the public might have in the future (though it has not had in the past) a different practical result from the principle laid down by the Commission that sales is olid be limited by the amount of the Secretary of States requirements present and prospective in the sense defined in para 186 (2) what guidance can be gained from the Commission's Report as to the action to be taken in the event of such conflict

That such a conflict is improbable is shown by the coincidence noted above of the results of following the first principle with those that the second principle is intended to produce and also by the fact that any increment of the tride demand expressing itself through an application for Council drafts tends automatically to set up an additional requirement of the Secietary of State in Council viz mones for the purchase of silver But though improbable the supposed conflict is not ampossible It is conceivable that at a time when the Secretary of State held resources sufficient, on a reasonable estimate to meet his requirements immediate and prospective and when a stock of gold and silver was held by the Government of India sufficient to meet the immediate and prospective demand of the public a trade demand might arise for remittance to India and express itself in applications for Council Drafts To grant such drafts would involve a departure from the principle laid down in para 186. To refuse them would involve 'the export to India on private account of more gold than is actually required in India for absorption by the public 'a course which the Commission regard as involving disadiantages set forth in para 176

The difficulty of choosing between the two courses would in part be automatically removed by the operation of the rule (if still in force) under which sales of bills are made without limit at 1s 41d per rupee the proceeds being treated if necessary, as a temporary addition to the portion of the Paper Currency Reserve held in London If this did not completely solve the problem the Secretary of State and the Government of India so far as they were entirely guided by the views of the Royal Commission would have to act in accordance with such view as they could form on the que tion whether an increase was more probable in the future in the Secretary have been placed before the Commission for modification of existing pract are rejected. In some passage, a distinction is driven between two view to the limit that should govern the amount of sales the one that their demand for remittances should be met subject to not preventing an inflow gold to India to meet the demand of the public for gold, the uther, that it requirements immediate and prospective of the Secretary of Sixte in Coun in London should be the only factor to be considered. Certain poin regarding the relation between these views, the possibility of conflict betwee their countries of the secretary of the conflict between these views, the possibility of conflict between these views, the possibility of conflict between these views, the possibility of conflict between the confliction of the confliction of the course to be taken in such an event and discussed in the enclosed note.

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- (b) The possible modifications considered by them were (para 179) that the Secretary of State should never sell more than the amount of his home charges or that he should restrict his sales to the amount entered in the Budget estimates or again that he should adjust the sales in such manner as to keep his home bulence from issing much above the working figure of £4 000 000

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That such a conflict is improbable is shown by the coincidence noted above of the results of following the first principle with those that the second principle is intended to produce and also by the fact that any increment of the trade demand expressing itself through an application for Council drafts tends automatically to set up an additional requirement of the Secretary of State in Council viz money for But though improbable the supposed conflict is not the purchase of silver impossible It is conceivable that at a time when the Secretary of State held resources sufficient, on a reasonable estimate to meet his requirements immediate and prospective and when a stock of gold and silver was held by the Government of India sufficient to meet the immediate and prospective demand of the public, a trade demand might arise for remittance to India and express itself in applications for Council Drafts To grant such drafts would involve a departure from the for country Drives to grain such draits would involve a departure from the principle laid down in para 186. Fo refuse them would involve "the export to India on private account of more gold than is activally required in India for absorption by the public 'a course which the Commission regard as involving disadvantages set forth in para 176

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APPENDIX 97 623

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same view is repeated in para 180

(b) In part 179 they state that they are opposed to the suggested limitations on the amount of siles. They refer more than once to the important undertaking given by the Secretary of State in Council in 1904 that Bills will be sold without limit of amount at 1s 4½d per rupee and do not indicate that the contemplate any alteration.

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The difficulty of choosing between the two courses would in part, be automatically removed by the operation of the rule (if still in force) under which sales of bills are minde without limit at le 4½ per rupee the proceeds being treated if necessary, as a temporary addition to the portion of the Paper Currency Reserve held in London If this did not completely solve the problem the Secretary of State and the Government of Indra so far as they were entirely i, indel by the news of the Royal Commission would have to act in accordance with such view as they could form on the que tron whether an increase was more probable in the future in the Secretary

of State's requirements in Jondon, or in the desire of the public in India to obstungold. In the former case the decision would no doubt be in favour of meeting motanto applications for Council Drifts in the form of telegraphic transfers, in the latter case it would be in India or rejecting applications, and thus foreing the uplicants to send gold to India.

APPENDIX 98

Extracts, &c, from Telegraphic Correspondence between the Secretary of State for India and the Government of India, Finance Department

1 Telegram from Viceroy, Finance Department, dated 8th October 1924

Lurly decision on fundamental question of policy is essential in view of the strengthening exchange, which seems likely to rise above 1s to 4 We are convinced that the time has come when we should definitely decide against any attempt to push rupee above 1s 6d unless renewed fall in gold value of sterling takes place. It is now beginning to be realised generally that the stringency in the maket is the direct outcome of Government action in contricting currency, or rither in placing stretchinits on possibilities of expression. The volume and importance of the opposition to this policy is increasing and was the lasts for the support not from Indian interests only, of Sr Purshotandas a Currency Bills which have however not been introduced and therefore lapse. We should have difficult in refusing to provide more generously for additions to currency even if we wished to do so and there is serious risk of a financial crisis if we keep the sease on too tight. Moreover, we cannot afford to keep market bare of loanable funds if we are successfully to ruse a rupe cloan in 1920, when we have large amounts of bonds muturing.

still another in 192b, when we have large amounts of bonds maturing.

It will follow, if this view is accepted, that during the coming busy season we should endeavour to prevent a rise above 1s 6d by free sales of Councils and sterling purchases both from our Tre sury balances and by issuing currency against sterling purchases for Paper Currency Reserve so far as necessary. It is realised that this may ruse the question whether the existing limit of Rs 85 coros of securities in reserve may not have to be increased. It is prohibite that it would be desirable in any case to increase our statutory powers up to, say Rs 100 crores next winter and we consider that we can justify this increase by normal expansion of the note issue which

will be required to meet the increasing trade requirements of the country general policy which we have tentatively in mind would be—

(a) to return as our primary purpose maintenance of comparatively stable rupee

(b) to fix in our own mind on 1s of d sterling as the figure at which we desire to stabilise rupes so long as this primary purpose is not endingered which is only likely in the event of renewed falling in gold value of sterling, and

(c) to wait until gold and sterling are on a pir before fixing the rupee by statute

But we realise that questions of such fundamental importance should not be decided without a formal enquiry by some kind of Committee Such a Committee might consider also other connected questions such as transfer to the Imperial Brah.

of the management of the Paper Currency, Remittances &c

We have had an opportunity of discussion with Warren, who is strongly of opinion with which we agree that we should announce that we are prepared to buy sterling without limit if Is \$\frac{0}{2}d\$. Such an announcement, we believe would have reassuring effect and would remove the element of uncertunity, which is at present having a disturbing effect on the marl et and may produce a real drager.

2 Telegram from Secretary of State to Viceroy Finance Department, dated 10th October 1924

I share your view that it is of utmost importance that confidence of market should be annituned and I am prepared to agree to further announcement as this object does not seem to have been achieved by your letter to Bengal Chamber of 25th August It seems to me however that the vital consideration is not so much the actual level of exchange at the moment as the actual cost of exchange at the moment as the actual cost of such abnormal stringency as might threaten the financial and economic position. I feel also that work of committee, if

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such is appointed, might be prejudiced if we peg upward limit of exchange, and that there is danger in announcing any definite figure as leading to conclusions on part of public which might not eventually be realised. I think, herein following underlying conception in your telegram of 1st October, that in present conditions reference is to be found in the maintenance of adequate cash position of Imperial Bank, and so avoiding any untoward rise in bink rate. I cannot but think that mirket would be assured that you have power to do this if you forthwith announced intention of tiking steps at forthcoming meeting of Legislature to ruse fiduciary limit of Rs 53 to Rs 100 errors

I suggest, therefore, announcement on following lines. Government of India in consultation with the Secretary of State, have given careful consideration to the struction indicated by the recent rapid rise in exchange. The Government of India announce that they will, in consultation with the Imperial Bunk, take such steps as the market position may demand to anticipate and relieve any undue stringency that may threaten or occur during this busy season, and with this end in view they propose at the next se-sion of the Logislature to take powers to increase the limits up to which currency may be issued against securities from Rs 55 to Rs 100 crores.

You could also unnounce that as in last serson, Government intend in effecting remittinees to act with a view to obviating any unduly rapid appreciation of the

rupee
I suggest we should endeavour to regulate remittances in such a way as to avoid,
if possible, a greater rise than, say, 3d in any one week.

3 Lelegiam from Viceroy, Finance Department, dated 11th October 1924

Your telegram dated 10th October, 2872 We consider announcement suggested by you undequate. It adds lattle in fact to the reply given already by the Funnee Member in the Assembly to Pursbotamdas' question, in which Government strated their readmess to ask for further stritutory powers if required. This reply was well received as being more explicit than the terms of the letter addressed to the Bengal Chamber, but last weeks events have only served more to convince us that unless there is assurance that an upper limit to the exchange can be guaranteed during the coming busy senson confident market cannot be restored. The suggestion made by you for preventing an undue rise in exchange in any one week appears to us quite insufficient to meet the gravity of the stitution. We do not agree that mere avoidance of abnormal strangency is the viral consideration. The element of uncertuinty as to limits to which the exchange can rise has become even more viral. The matter has been in our minds for some time but we have deferred addressing you until we had opportunity to discuss with Warren, who, after studying restriction in Bomby, strongly confirmed our view that increase in rate beyond 18d is to be deprecated in the best interests of the country and of our future financial operations and that public amouncement is most described and indeed imperative

The point you urge that to peg ovelange in advance of the appointing of the Committee has certain disadvantages, is fully rethiesd by us, but we feel that greater dangers are involved in any other policy. It is, we consider, out of the question that the uncertainty should be allowed to continue for several months more. We think it highly improbable that the view could be taken by any Committee that higher exchange than 1s 6d is desirable. This rate is one which would not involve the disturbance of present price levels but both Indian exports and industries would be adversely affected by any higher rate. We find already that Pata Iron and Steel Company is seriously affected by rise in exchange. The Committee would not be absolutely precluded from recommending a higher rate by a decision now to give an upward laint of 1s bigh for the time being but even if it were, we feel four duty as Government in existing circumstances to arrive at a decision in advance. Further, we believe that an apportunity, which may not recent, is offered at the present moment of obtaining general acquisioners are in Bombay in a policy which will give us a permuently higher rate than 1s 4d gold. We regard it as of great importance, politically quite part from financial ments to take commercial opinion along with us in this matter. We therefore strongly press that our proposals should be accepted.

1 Telegram from Secretary of State to Viceroy Finance Department, dated 15th October 1924

Exchange Your telegrams dated 5th and 11th instant. The difficulties which you have had to face in maintaining view, with which I am in entire accord that

time has not yet come for final fivation of rating of rupee are fully realised by me. and I appreciate vigour and skill with which case for postponing this issue has been expounded on numerous occasions by I mance Member despite strong pressure from certain quarters for attempting forthwith permanent solution I regret all the more keenly in these circumstances that I am unable to see eve to eve with you on the action to be taken at the moment

In considering your recommendations main object that weighs with me is to uphold cardinal position that world economic conditions are still too unstalle to justify renewed attempt at exchange stabilisation and to avoid any steps that might impur present freedom of action and militate against the eventual adoption of a rating that might seem after full enquiry in due course, most conducive to general interests

affected and to be capable, without undue strain, of being maintained

No indication has reached me that Indian trade in its broad aspects is likely to be threatened by such a gradual rise in exchange as has been in progress for some time or that remittance operations conducted on lines suggested in final paragraph of my telegram of 10th instant (supplemented by this telegram) will be insulicient to control any excessive uprush of exchange Further such details as I have with regard to Indian internal prices seem to show a rising tendency despite upward curve of Pegging of exchange would militate against your power of control even if this movement cannot ultimately be worded ming to world prices an I would tend to defeat primary object of maintaining the stability of internal prices (see your telegram dated 8th instant) At the same time I sympathise altogether with feeling of apprehension which is hanging over market that absence of automatic facilities for currency expansion by import of gold might lead to a stringency which might threaten fundamental economic position. While it is not feasible to remedy this defect in existing conditions proposals in my telegram of 10th October were directed to meeting what it still appears to me to be the essential danger point of present abnormal situation, and actual decision to take further powers for an increase in the fiduciary issue is in my opinion an important advance on the general assurance given previously

Government have as regards pegging upward limit of exchange up to now advisedly refrained from establishing any absolute maximum rate and have studiously avoided implications regarding the future If Government were now to commit itself to a maximum sterling rate any such arbitrarily fixed rate would be bound to have strong influence on the anticipations of the market as to permanent rating of the future though here again grounds for dispute would be furnished as to whether eventual rate would be the rate as pegged in storing or the present equivalent in gold In either case Government would have gravely compromised their liberty of action and in the event of a material rise in gold prices (which contingency cannot be overlooked) Government might have cause to regret any decision taken now Moreover Government would be exposed having once committed itself to the pegging of upper limit to demands that attempts should also be made to peg lower limit in the event of exchange weakening substantially hereafter. It is difficult to see without this further step that importation of funds to India will be materially helped as no limit can be set to possible loss on exchange on remansfer On the other hand, any action tending to ruse matter of reverses is to be deprecated until Government are prepared to use full resources in support of a permanent rate

We have before us the fact that in many instances during recent years in periods of fluctuating world prices when attempts have been made to peg exchange the result has been substantial loss to countries concerned and great inconvenience and difficulty have been caused to the trader when the peg has broken down or been

My conclusion is that Government should refruin from any absolute pegging of upward limit of exchange or from appointing a Committee at present time. The arguments on which I mance Member has laid stress in the past, in particular the uncertainty of present world economic factors have lost none of their strength have to reckon apart from the uncertainty as to the gold value of sterling to which you refer with the even greater uncertainty attached to the commodity value of gold. entailing reactions which India like other countries could not escape

I should observe in this connection, in order to avoid possible misunderstanding. that under clause (b) of your telegram of 8th October you are apparently prepared to that under crusse (o) to your reagains to controlled in the rupe of the greater degree of precision than suggests itself to me at present. The figure mentioned by your spirely arbitrary and cannot be based on rehable data as the future of gold prices is still APPENDIX 98

At the same time you will realise that it is no question of any particular prognosis that impels me to the view that it is premature to proceed at the moment with the idea of a Committee or to set an absolute upward limit to the rupee for time being in the manner you suggest

I recognise that at some future date it will be desirable to constitute an authoritative body to advise as to the riting of the rupee and possibly as to other matters in

connection with Indian currency and exchange

Me inwhile in my judgment a prudent policy would be based on following main objectives viz the maintenance by the Imperial Bank of an adequate cash position with a view to avoiding any serious departure from what may be regarded as the normal Indian monetary trend maintenance of comparatively stable rupee prices. the regulation of remittances with a view to the avoidance of excessive fluctuations of exchange, and the retention of a free hand by Government to take appropriate action when the time comes with a view to fixing exchange rating at point deemed most conducive to Indian interests as a whole

It is worth observing in this connection that when the time comes for the submission of the matter to a Committee it will be well to time reference so that report may be presented before the busy season so that action may be taken on it at period of vent most promising for success assuming conditions continue normal Danger of submitting report towards close of active season is that the chance of making any new ratio effective may be impaired if conditions prove unfavourable in

succeeding busy season

For reasons furnished above I must adhere to decision communicated in my telegram of 10th October, on which I should be glad if you would act. As regards increase to Rs 100 crores of fiduciary issue, I am advised that you could act in case of emergency by Ordinince under section 72 of the Government of India Act You may consider it desirable to refer in announcement to this point. It is open to you, of course also to amplify announcement by including reference to recent extensive remittances as indicating Government's desire to help marl et

3 Telegram from Viceroy, Finance Department, dated 4th November 1924

Lychange Your tele_rum dated 1pth October Serious consideration has been given by us to your arguments which were fully present in our own minds when our proposals were made and we desire to make the following observations

Your main argument against acceptance is that the world economic conditions are still too unstable to justify the renewal of the attempt at exchange stabilisation argument is in substance the same as we have ourselves put forward repeatedly against the demands for altering the statutory ratio. The argument can easily be pressell too far however so far as it affects India. We have always recognised the possibility of a renewed fall in the purchasing power of gold and we agree that this consideration is decisive against any immediate fixation of the rupee in terms of gold but as against firstion in terms of sterling particularly if such firstion is tentative as we propose the argument loses much of its force when it is remembered that at present sterling is at a discount not much less than 10 per cent in terms of gold so that to that extent a fall in the purchasing power of gold will be offset by the rise in gold value of sterling which involves a corresponding rise in the gold value of the rupee without any departure from the rate of 1s 6d sterling

With regard to your reference to other countries who have attempted to peg exchange, the case of India is not parallel. The former attempted to fix a lower lunt of exchange at a time when their trade had been not ceably disturled and the internal economic conditions were in a state of choos. Our present propo il as regard. India is to fix an upper limit when trude as well as internal economic con litions have made progress substantially in return to normal lines. We doubt whether sufficient weight has been given by you to the great improvement in internal economic conditions which has taken place in India and to the check which in the list few years has been placed on the expansion of currency. In the last two years the raw materials of India have been in great demand with the result that there has

been a substantial trade balance in her favour

The demand for Indian commodities may be expected to rise further with the return of normal economic conditions in Central Europa and it is difficult to envisage in the absence of a widespread fulure of the monsoon or other catastrophe, a situation in which there would be in the near future a complete swing of the As regards your comments on the course of Indian internal prices, the Calcuttaindex number of wholesale prices which is more reliable and more comprehensive than the all India index number does not disclose any tendency to rise. The same is true of the Bombay index number. We would further point out that in the case of commodities which have a world price—i.g. cotton steel and sugar—in recent mouths there has been a marked fall in the rupce price, in the case of wheat the result of the appreciation of the rupce has been that the price has remained nearly stationary

in India while it has gone up considerably in I ngl ind and America While then we agree that the waiting policy adopted hitherto has been the right one in our opinion it is almost if not quite impossible for practical reasons to You observe that such a gradual rise in exchange as has for some time been in progress is not likely to threaten Indian trade in its broad aspects and that remittance operations conducted on the lines suggested by you should suffice to control any excessive uprush of exchange. We must point out that the rise in exchange which has occurred alreads has not lutherto had any serious adverse effect on trade because it has so far not exceeded the limits which have generally been There can be no doubt that much harm will be done by any further anticipated While it is possible of course to control a further rise by adjusting material risc our remittance operations it should be remembered that exchange has risen from 1s 13d to 1: 6d during the last six months in spite of heavy purchases of sterling and that such violent and frequent adjustments in our purchase procedure as will be necessary in order to keep the rise under effective control cannot but have the most The rates which were accepted at the Council Bill siles of the 14th bramful effects and 21st October has already furnished evidence of this. As a result of our large rurchases of sterling in October the eachinge market is, for the moment quiescent, but there is no guarantee that there will not be a recurrence of similar conditions in an aggravated form during the busy season

Moreover it is our deliberate opinion that we cannot afford to allow the rupee to appreciate much above 1s 6d steeling during the coming winter, and if this is accepted the importance of an announcement immediately rigarding the upper limit for exchange is obvious. Both in Calcutta and Bombay the trade is in an extreme state of tension and expectant of a Government announcement, in the absence of which graphing in exchange will continue on a large scale to the serio is detriment

of genuine tinde interests

Turther we regard with extreme concern the prospects of borrowing by Government unless action is taken now to restore confidence. We are convinced that unless there is some very big change in the conditious reacting on the Indian monetary situation their us of a jupe loan in India of my appreciable amount in the summer

of 19% will be an impossibility

We reduced our demand from 20 crores to 15 crores in 1924 eventually we got only 13 crores and were lucky to get that We cannot curtail ver materially only 13 crores and were lucky to get that We cannot curtail ver materially only the programme even if we wished to do so and a eshould regard as contrain to the true interests of India am considerable curtuilment. We should be driven to the true interests of India am considerable curtuilment. We should be driven to the true interests of India and considerable curtuilment. We should be driven to facility of the present. In a period of both monsone external borrowing will be ineartished and Indian credit abroad if we can avoid it ought not to be called upon to Lar the strain of the issue of an external lorna at a time of good monsones when there is a difficulty in rematting money threat, and the need for Lorrowing abroad only arises because the capital cannot be russed in India. Moreover external borrowing at a time when there is uncertainty as to the future of the rupee involves an exchange risk and becomes very speculative. We would remind you that in 1926 we have a maturity of 25 crores to deal with and it is unthinkable that if y postponing a decision in rigand to exchange we should run the risk of not Leing able to renew a large proportion of these londs in India.

The announcement which you suggest is we consider quite insufficient in itself to have any reassuring effect as it will amount only to a retteration of the declaration we have dready made, that there will be no heistation on the part of Government to take further powers in a matter of sterling investments in the Paper Currency Reserve Something of greater importance is expected by the market and we consider it better to make no announcement at all if we have nothing better to announce Such an announcement would at once stimulate the demand for the moment quescent for action on the lines of Parshotundas Bill and would result in increasing opposition to

our Bill when it is introduced

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We propose that as soon as announcement of our maximum rate is made, Council-sales should be discontinued for the present and all sterling purchases effected through the Imperral Bank at the rate of 1s 64d only

6 Telegram from Secretary of State to Viceroy, Finance Department, dated 19th November 1924

Exchange Your telegrom of 4th November. It will have been realised that the desired predecessor's telegram dated 15th October were not reached without full consideration of this important question in all its bearings but matter has again

received most careful attention in view of your further telegrain

The announcement of any maximum unward limit to exchange is likely to be regarded as the first step in the direction of eventual fixation and arbitrary point selected would have to be justified which it would be difficult to do with convincing effect in existing uncertainties. Having once accepted a new responsibility as regards unward point, Government could scarcely avoid for long complementary and more dangerous responsibility of fixing a lower limit and supporting that limit in event of any material werkness developing with full extent of its resources. Whatever later reaction world price movements may have on exchange we cannot leave out of account possibility of some decline from existing level of exchange especially in view of recent rapid rise in sterling dollar exchange which has already presumbly, had some influence in checking rise of rupes sterling exchange. This tendency may manifest itself further unless countercated by other forces in accordance with feeling in well informed quarters (vide city notes in Times of 7th November) the pound moves at no very distributed to parity. If capacity of Government to handle exchange problem effectively at proper time is not to be compromised it is necessary, in my judgment to avoid commitments which may prove embarrissing subsequently and to retain freedom of action until greater stability in international factors has been achieved and time is favourable for taking up question of the permanent fixation of rupes exchange.

I agree with you that as matters stand at the moment, our efforts should be directed towards averting material rise in exchange above 1s 6d and I am quite prepaied in the event of exchange showing a marked tendency to break away in upward direction above that point that we should conduct remittance operations on scale which would hold tendency in check. We should have to consider as season develops in light of trade and market conditions how far it is desirable to persist in such a policy if it threatens to lead to an undesirable degree of expansion. There seems no reason to think that market position will be impaired as regards future barrowings if cash bilances of Imperial Bank are ad quately replenished so that market conditions conform to normal monetary trend and remittance operations are conducted on lines stated above. Prospect as regards future borrowings rests much more on actual monetary conditions than on announcement of present policy which may or may not be modified. I share your view that the restriction of the growth of India's sterling debt so far as may be is desirable but it is to be remembered that the opportunity of raising the exceptionally large loans obtained in India during the time of war and afterwards arose out of special circumstances including the heavy currency expansion between 1917 and 1920 the influence of which continued subsequently especially during the period of severe trade depression despite the

actual contraction of currency which took place after 1920

As main objections to your propo als recapitulated briefly above, remuin I have decided, riter fullest consideration to adhere to decisions communicated in my pridecessor's telegram dated 15th October. It is not necessary for me in the circumstances, to examine in detail the suggestion in final paragraph of your telegram which seems to imply that Government should so act as to stimulate rise in exchange to 1s 63d. I see objection to the adoption of any such rigid standard. It seems preferable to work on lines now in force which make it clear that Government have no preconceived aim in the matter of exchange apart from desire to avoid excessive and rapid fluctuations. I do not understand why any announcement regarding the matter should be expected by markets but feeling would doubtless disappear when it is clear that no such announcement is forthcoming and public are let to place their own interpretation on Government attitude. You could make it known of course that attitude of Government is broadly speaking the same as that which has prevailed furing past ever and that it is still important to avoid any positive commitmens until it any rate gold and sterling are synonymous again and there is a sured prospect of maintaining partit.

7 Telegram from Secretary of State to Viceroy, Cinance Department dated 21th September 1925

Exchange I gather that your definite view is that exchange should not busis. While final developments of mousoon in affect extent of demand for rupees there is still possibility of persistence of tendency for exclusing to rise which could be kept down only by what would amount to unfinited remittance at fixed point and figure of £11000 C00 mentioned previously is to be regarded, presumably as provisional only. If demand for rupees were to continue for a prolonged period on extensive scale there might be some risk of excessive expansion it upward limit of exchange were pegged as suggested I cannot commit myself therefore in present circumstances to view that exchange should in no circumstances be permitted to rise this winter to, say above 12 of 3d or 1e 63 d though I am prepried to accept this figure provisionally as governing for the time being our remittance policy. Moreover I feel strongth that it would not be right to present commission with a fait accoupth at the very moment when they are commencing operations. I therefore suggest if market conditions point thin way trate for remittances might be allowed to move shortly to 18 of 3d. I his figure is sufficiently near 1s. (d gold import point and would not indicate any counce of policy.)

With regard to your recommendations in the financing of remutances the present easy money conditions indicated by low bank rate suggest that we should not resort to expansion of currency so soon. If derefore think that there would be distinct advantages in following the original det suggest by you. Recent uncertain developments of monsoon also point to the undestribulity of premiture expansion. I would therefore be glid if you would reconsider Ways and Menna advance or Treasury, Bills to be combined with note issue expansion as services.

progresses and money conditions harden

As regards. Home Treasury position existing behavior will probably suffice till towards end of Jan mark, on the assumption that they will not be further strengthened by remittances.

8 Telegram from Viceroy Pinance Department duted 9th October 192,

With reference to voir telegram dated 24th Scitember, Exchange we note that you accept provision as governing our remittance, policy for the time being, that exchange should not be allowed to rise above gold import point on basis of 1s fold and it is not our wish to anticipate policy which should be pursued in the busy service and it is not our wish to anticipate policy which should be pursued in the busy service. This figure is somewhat allowe the actual gold point and we are convinced that our otion would be misunderstood by marlet and would be regarded as a change of policy, and the effect almost contraily would be an induced that our action would be misunderstood by marlet and would be regarded as a change of policy, and the effect almost contraily would be an induced that our have not had to purchase large amounts of sterling and we anticipate that our balance at the bank on 16th instant will be Rs S crores, less their these cost of any balance at the bank on 16th instant will be Rs S crores, less their pee cost of any fartler sterling purchases. Moreover we espect the demand for money will begin earlier than usual owing manuly to the early season for cotton and bank rate has alleady been russed to a per cent. We thind it likely that we may be able to postpone all the end of October any expansion of currency. It will therefore not be likely that expansion of currency will coincide with very easy money conditions. It is possible at the same time that it may be convenient to combine policy proposed by us with Ways and Meuns advances from the bank later on. We will be at this

9 Telegram from Secretary of State to Viceroy Finance Department dated 19th Worth 1926

Pronounced weakening of exchaige recently makes it desirable that we should be prepared for possibility that exchange may decline to lower gold point as determined on basis of 18d gold rupee—which may presumably be taken at 1s $5_1/2d$ telegraphic in present conditions

. Recent policy of holding upper limit of exchange at 1s t_1 , d was directed towards the establishment of in equilibrium between external and internal prices which would facilitate stabilisation of rupe at 1s d d old d recognise inconvenence

of Government having to intervene actively to munitum the lower limit of exchange in a time when the Currency Commission is sitting but when Government decided to peg upper limit of exchange the inconvenience of positive control was accepted definitely. Result has been an expansion of currency which it may be necessary to draw off if exchange relapses to lower gold point by sale of reverses. You will agree that this should if possible be avoided as the sale of reverses would be open to much public misunderstanding and misrepresentation. It suggest therefore for consideration whether before this stage is reached some contraction of note issue should not with a view to stiffening market in India be effected forthwith against retransfer to Treasury of part of sterling securities eximated this winter to currency reserve. I shall be glid to receive at an early date an appreciation of exchange prospects and your recommendations on above matters.

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Letter from Messrs Thomas Duff & Co, Ltd, Calcutta, to the Joint Secretaries to the Royal Commission on Indian Currency and Finance, dated the 5th January 1926

We are in receipt of letter No 697 dated 30th ultimo and in reply to same detail below the figures of increases granted since the year 1913 to the wages of our workers together with the months and years in which successive increases were granted —

Per cent of increase	Month	l ear		
10 per cent	May	1918		
10 per cent.	September	1919	20 per cent	above pre war
20 per cent	Jan 1ary	1920	40	•
10 per cent	October	1920	0 _G	

A Khoraki pryment has also been made for some years and this special resort to a working week of fou dats only. This Khoraki pryment automatically ceases when the mills are in a position to increase output.

The details of Khoraki paid and the dates when started are as under —
April 1919 April 1991 April 1991

	·	´—
	Annas	Annas
Shifters	3	4
Workers drawing less than 10 annas per day	4	6
Workers drawing more han 10 annas but less		
than Re 1 per day	6	8
Workers drawing more than Re 1 per day	8	10